

Established 1853 - Incorporated 1903

S.D. KIMBARK CO.

HALF CENTURY
CATALOGUE

ILLUSTRATED

80, 82 & 84 MICHIGAN AVE.,
CHICAGO,
U. S. A.

T S

285

.K 49

1903



Class TS 285

Book K 49

Copyright N^o 1903

COPYRIGHT DEPOSIT



J. D. Kimbark

ESTABLISHED 1853

INCORPORATED 1903

S. D. KIMBARK CO.

OFFICERS:

S. D. KIMBARK - - - President

C. A. KIMBARK - V. Pres. & Treas.

W. KIMBARK - - - - Secretary

CATALOGUE

HALF-CENTURY
EDITION

DIRECTORS:

S. D. KIMBARK

C. A. KIMBARK

W. KIMBARK

WM. H. SPEAR

W. B. MITCHELL

JAS. T. FULTON

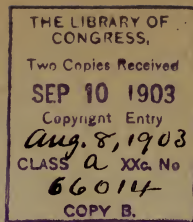
JOHN CARSTAIRS

IRON AND STEEL

CHICAGO, U. S. A.

COPYRIGHT 1903, BY S. D. KIMBARK CO.

TS 285
K 49
1903



INTRODUCTION

For the purpose of perpetuating the business of Mr. S. D. Kimbark which was established in 1853, a Corporation was formed on January 1st, 1903, under the name of S. D. Kimbark Co. The management of the business remains in the same hands as heretofore, and the long established reputation of the house for fair and honorable dealing will be maintained.

We take this opportunity of expressing thanks and appreciation for the liberal patronage extended by all customers of the old firm, soliciting a continuance of the very pleasant business relations which have existed between us for so many years.

To the many others whose patronage we so much desire we offer advantages resulting from the experience of a half century, having full faith in our ability to gain their confidence and to retain it.

Respectfully,

S. D. KIMBARK CO.
Chicago, August, 1903.

OUR CATALOGUE

In the re-arrangement, general revision and compilation of this HALF CENTURY EDITION of our CATALOGUE we have spared neither time nor money to make it attractive, complete and reliable. All *Manufacturers' Standard Lists* are the latest, being such as are in general use at the present time, and to distinguish them from other lists are all prefixed with a star. All other list prices have been revised with great care for the purpose of enabling us to quote so far as practicable a uniform discount, but *all lists* in this catalogue are *subject to change without notice* and to varying discounts in accordance with the market.

We call particular attention of buyers to the fact that

**All list prices in our Catalogue are
subject to discount.**

This catalogue contains illustrations and descriptions of all new and desirable goods in each department as well as the old standard articles and may be regarded as an up-to-date book of general information pertaining to *Iron and Steel, Heavy and Carriage Hardware, Wood Materials, Carriage Trimmings, Blacksmiths' and Wagonmakers' Tools and Machines* and all goods that we handle.

Many years since we adopted this form of catalogue in preference to all usual styles with a view not only to originality but to making it possible to issue a new edition as frequently as changes in prices might demand. We trust you may find our catalogue invaluable as a book of constant general reference.

Please note carefully illustrations and descriptions of *Bodies, Seats*, etc, pages 369 to 376 of which we are extensive manufacturers.

We solicit your orders and correspondence which will always receive our prompt and most careful consideration.

S. D. KIMBARK CO.

Chicago, August, 1903.

T S 285-
1249
1903

TERMS

Responsible parties known to us, or who may establish their credit by means of satisfactory references, or otherwise, will be extended the usual credit; others must send cash with order, or twenty-five per cent. with order, the balance to be paid upon delivery of the goods. This applies equally to freight and express shipments.

We do not ship C. O. D. unless a remittance is made in advance as above.

If preferred, the sum necessary to cover amount of order payable to us upon delivery of the goods, may be deposited with your bank or express agent, a certificate to that effect being sent with order, and in that case no advance is required.

Orders may be sent through the purchasing department of your Express Company.

Remittances, charges on which must be prepaid, may be made by bank draft on Chicago or New York, postal money order, express order, express package, registered letter, or a draft on a commission house located here. We will not be responsible for loss of registered letters and recommend that currency be sent only by express.

Checks on country banks will not be accepted.

Reasonable charges for boxing and carting will be made.

All prices are subject to change without notice.

Our responsibility ceases when we take a receipt "in good order" from transportation company.

Claims for shortage or allowance must be made immediately upon receipt of goods.

S. D. KIMBARK Co.

3-22559

INDEX.

	PAGE
Acme Blowers, Root's	156
Acme Shoeing Rack	33
Acme Tuyere Irons, Root's	153
Acme Wrenches	81
Acorns	255
Adjustable Arm Rails	398
Adjustable Clamps	79-80
Adjustable Tap Wrenches	80
Adjustable Wrenches, El-	
gin	81
Advance Drills	175 to 177
Adze Handles	378
Agricultural Forges	158
Agricultural Wrenches	81
Aluminum	19
"Always Ready" Wrenches	81
Amidon Corner Braces	111
"Anchor Line" Vises	144
Angle Shears	191
Angle Steel	13
Weights of	410
Anti-Kinker Tire Upsets	183
Anti-Rattlers, Shaft	236
Anvils	140-141
Anvils and Vises Com-	
bined	140, 149
Apron Fasteners	274
Aprons, Blacksmiths'	95
Carriage	273
Arbors	96-97, 117
Arm Rails, Adjustable	398
Artificial Leather	253
Auger Bits	112
Augers, Hollow	132 to 134
Ausable Horse Nails	31
Automobile Jacks	379-380, 424
Automobile Rubber Tires	302-303
Axe Handles	378
Axes, Tooth	102
Axe Beds	348-349, 354
Axe Boxes	216-217
Axe Clip Yokes	234
Axe Clips	231 to 233
Axe Cutters	140

	PAGE
Axe Extras	214, 217
Axe Gauges	139
Axe Oil	217
Axe Setters	140
Axe Stay Clips	233
Axe Steps	220
Axe Stocks	196
Axe Washers	218
Axles 195-196, 214 to 217, 286	
Hickory	286
Roller Bearing	216
Tubular	195-196
Weights of	415
Welding	214, 217
Ayre's Tire Upsetters	184

	PAGE
Babbit Metal	41
Back Irons, Lazy	245
Back Stays	247
Backs, Bent Lazy	376
Bent Phaeton	376
Full	269
Medium	269
Panel	269, 376
Badger Punches	190
Badger Punches and	
Shears	186-187, 189
Badger Shears	191
Band Nails	259
Band Saws	171-172
Band Setters	139
Banded Wheels	297
Bands, Hub or Rim	258-259
Sand	258
Banner Welding Com-	
pound	34
Bar Iron	1 to 4
Barbour's Thread	256
Barcus' Shoeing Stocks	33
Barnes' Pipe Cutters	83
Barrel Hoops, Cut	18
Bashaw's Tire Removers	185
Basswood Panels	318
Baum's Castorine	217
Baum's Hoof Dressing	34

	PAGE		PAGE
Beams, Plow.	38, 377	Bob Gearing.	387
Bed Pieces, Wagon.	287	Bob Knees.	387
Beds, Axle.	348-349, 354	Bob Runners.	388, 390-391
Coach.	354	Bob Shoes, Cast.	395
Beeswax.	258	Bob Sleigh King Bolts.	395
Beetle Rings.	41	Bob Sleigh Woods.	401 to 403
Bellows.	152	Bob Sleighs, Fin'd.	404 to 406
Bellows Forges.	163	Bob Stuff.	386
Bench Drills, Stearns'.	173	Bob Tongues.	387
Bench Hatchets.	113	Bob Woods.	401 to 403
Bench Hooks.	110	Bobbins, Wound.	256
Bench Screws.	110	Body Corner Irons.	262
Bench Vises.	142 to 149	Body Couplings.	213
Benches, Bob.	387	Body Hangers.	227
Benders, Tire.	181-182	Body Loop Bolts.	259
Bent Felloes.	289 to 291	Body Loop Ends.	226
Bent Hawns, Wagon.	288	Body Loops.	226
Bent Head Shaft Bolts.	238	Body Moulding.	262
Bent Lazy Back Woods.	376	Body Steps.	218, 220
Bent Phaeton Backs.	376	Bodies, Carriage.	369 to 374
Bent Poles.	316	Boiler Patch Bolts.	60
Bent Rims.	289 to 291	Bokop's Tire Heater.	185
Bessemer Steel.	5 to 9	Bokop's Tire Setter and Cooler.	185
Bicycle Dies.	123	Bolster Plates.	199
Bicycle Grindstones.	74	Bolster Springs.	203-204
Bicycle Screw Plates.	124	Bolsters, Oak.	286
Bicycle Taper Taps.	128	Bolt Clipper Knives.	132
Bi-Treadle Grinders.	74, 170	Bolt Clippers.	131-132
Bit Brace Collets, Dies and Taps.	125	Bolt Cutters and Nut Tap- pers.	120
Bit Brace Countersinks.	110	Bolt Ends.	59
Bit Brace Drills.	98	Bolt Headers.	150
Bit Brace Taps.	125	Bolt Tongs.	86
Bit Brace Wrenches.	80	Bolts.	53 to 60, 212, 225, 237- 238, 259
Bit Braces.	111	Cutter Shoe.	53, 397
Bit Stock Drills.	98, 113	King.	199
Bits.	112-113, 137-138	Patch.	60
Black Giant Metal Worker.	184	Sleigh Shoe.	53, 396
Blacksmiths' Aprons.	95	Spring.	212
Blacksmiths' Sledges.	84	Boom Chains.	34
Blacksmiths' Tongs.	86	Boot Hooks.	274
Blacksmiths' Tools.	94-95	Boot Springs.	272
Blacksmiths' Vises.	142	Boots, Buggy.	272
Blades, Bandsaw.	171	Borax.	34
Hacksaw.	116-117	Boraxette.	34
Blast Forges.	158-159	Borers, Hub.	136 to 138
Blast Gates.	154-155	Bow Leather.	253
Bliss Hoof Cutters.	89	Bow Slats.	318
Blocks, Cone.	151	Bow Socket Rivets.	246
Leveling.	151	Bow Sockets.	245-246
Pulley.	36-37	Bows, Carriage.	318
Spring.	207	Express.	318
Swage.	151	Wagon.	318
Blowers, B. S., Hand.	155-156	Boxers, Hub.	136 to 138
Buffalo.	156	Box Cleats, Wagon.	201
Power.	154		
Boat Spikes.	20		
Bob Benches.	387		

INDEX.

vii

	PAGE
Box Loops	250
Box Nails, Wagon	45
Box Press	139
Box Pullers	139
Box Rivets, Wagon	45
Box Rods	199
Box Staples	200
Box Steel, Wagon.	12
Box Straps	200
Boxes and Screws, Vise.	142
Boxes, Axle	216-217
Pipe	216-217
Tool	84
Boxing Gauges, Hub	139
Boynton & Plummer's	
Benders	182
Boynton & P's Drills 173-174	
Brace Ends	248
Brace Wrenches	80
Brace Yokes	225-226, 395
Braces, Bit	111
Corner	111
Side	200
Stay	227
Top	247
Bradley Shaft Couplings	235
Brads	21-22, 24, 252
Brake Bars, Wagon.	287
Brake Lock Shoes	201
Brake Ratchets	201
Brakes, Wagon	201
Brass Bushings	212
Brass Grommets	250
Breaking Cart Shafts.	312
Breast Drills	112
Brewster Fifth Wheels	223
Brewster Gearing	343
Brewster Reaches	352, 354
Brewster Springs	212
Bridge Bolts	59
Bridge Rods, etc..	59
Bright Coil Chain	34
Broad or Bench Hatchets	113
Brook's Chain Pipe	
Wrenches.	83
Brown's Adj. Pipe Tongs	83
Brown's Oscillating	
Knees	392-393
Brushes, File	75
Paint	284
Buckle Loops, Leather	270
Metal	250
Buckle Loops and Straps,	
Metal	250
Buckram	256
Buffalo Forges	157-158
Buffalo Hand Blowers	156

	PAGE
Buffalo Steel Pressure	
Blowers	154
Buffers, Farriers'	85
Rubber Spring	202
Buggy Bows	318
Buggy Eveners	309
Buggy Gearing	341 to 354
Buggy Neckyokes	307-308
Buggy Seats	375
Buggy Shafts	310-311
Buggy Singletrees	306
Buggy Steps	218, 220
Buggy Tops	266
Buggies, Ironed	355 to 358
Burden Horse Shoes	27
Burners, Paint	284
Burnishing Ink	258
Burrs, Riveting	45
Burton's Anti-Rattlers	236
Bush Hammers	102
Bushings, Spring	212
Business Sleighs	385
Butterises	85
Button Holes, Elastic	250
Buttons	252
Byrnes' Tire Bolt Wrench and Clamp	80

C

California Tire Rivets	45
Calk Steel, Toe	11
Calk Wedding Dies	32
Calks, Toe	31
Calked Shoes	27
Candles, Coach	275
Cane Work	275
Caned Seats, Sulky	353
Canopy Top Brace Ends.	248
Canopy Top Curtains	266
Canopy Top Frames	376
Canopy Top Hooks	250
Canopy Top Irons	248
Canopy Top Offsets	248
Canopy Top Socket Ends.	248
Canopy Top Standard Ends	248
Canopy Tops and Frames.	267
Canvas	254
Canvas Polishing Wheels	70
Capacity of Springs	416
Cape Chisels	102
Cap Screws	66
Caps, Pole or Tongue	198
Cardboard	257
Cards, File	75
Car Nails	21-22
Carpet	255
Carpet Hooks	251

	PAGE		PAGE
Carpet Rugs	272	Clark's Expansive Auger	
Carriage Bodies	369 to 374	Bits	112
Carriage Bolts	54-55	Clark's Tuyere Irons	152
Carriage Ironers' Flam'rs	92	Classification of Emery	
Carriage Knobs	249	Wheels	71-72
Carter's White and Red		Classification of Iron	2 to 4
Lead	278	Classification of Steel	.5 to 9
Cart Heel Irons	234	Clevises and Draw Bolts	237
Cart Shafts	312-313	Clevises, Eveners, Wro't	198
Cart Wheels	305	Malleable Iron	243
Carts	354	Climax Welding Com-	
Cast Anvils	140	pound	34
Cast Bob Shoes	395	Clinch Nippers	89
Cast Iron Jack Screws	68	Clinch Tongs	87
Cast Washers	53	Clincher Vises	148
Castorine or Axle Oil,		Clip King Bolts	225
Baum's	217	Clip King Bolt Braces with	
Center Clips	197	Yoke	226
Center Clips, Sharp	232	Clip King Bolt Yokes	225
Center Clips and Rings	197	Clip K. B. Yokes, with	
Center Irons, Neckyoke	197	Brace End	225
Center Punches	94-95	Clip Yokes or Ties 225, 234, 396	
Centers, Neckyoke	239	Clips	230 to 234, 396
Chafe Irons	228	Singletree Center	197
Chain	34-35	Clips and Hooks	196
Chain Hooks	36	Clips and Rings	197
Chain Pipe Wrenches	83	Clipper Shears	192
Chain Vises, Eagle	142	Clippers, Bolt	131-132
Chains, Lock	202	Horse	32
Log	34	Cloth	254
Pole	202	Cloth Covered Buttons	252
Spreader	202	Cloth, Emery	69
Stay	202	Enameled	254
Tongue	202	Major	253
Chair Nails	24, 252	Rubber	253
Challenge Forges	164	Sand	69
Chambers' Bolt Clippers	131	Union	254
Champion Blowers	155-156	Clout Nails	24, 252
Champion Drills	179	Club Handles	262
Channel Steel	13	Club Handle Collars	274
Channel Swages	95	Club Handle Nuts	273
Channels, Rubber Tire	301	Coach Axle Clips	233
Cheney's Anvils and Vises	140	Coach Axle Stay Clips	233
Cherry Heat Welding Com-		Coach Beds	354
pound	34	Coach Candles	275
Chicago Screw Plates	125	Coach Clips	233
Chipping Hammers	93	Coach Colors	276-277
Chipping Vises	146	Coach Door Moulding	262
Chisels	94-95, 102	Coach Fellow Plates	234
Chucks, Drill	96-97	Coach Hinges	251
Circle Posts	200	Coach Joint Rivets and	
Circles, Fifth Wheel 220 to 223		Washers	246
Platform	220 to 222	Coach King Bolt Plates	225
Pole	317	Coach Locks	251
Circular Saws	117-118	Coach Mountings	275
Clamps	40, 79-80	Coach Pole Holders	224
Clark's Cotton Thread	256	Coach (or Lag) Screws	62
		Coach Singletree Tips	260

	PAGE		PAGE
Coach Spring Bolts	212	Countershafts	154, 168
Coach Spring Clips	233	Countersinks	94-95, 110
Coach Trace Bolts	238	Countersunk Head Rivets	45
Coach Trimmings	275	Countersunk Shoes	27
Coachmakers' Vises		Coupe Shafts	315
.	143 to 149	Coupling Bolts	237
Coach Vises	145 to 149	Coupling Plates	198
Coal Picks	105	Couplings, Platf'm Body	213
Coal Pick Handles	378	Pole	235
Coal Sledges	104	Shaft	235
Coal Wedges	104	Sleigh	395
Coe's Drills	173	Cowboy Shoes	27
Coe's Tire Benders	181	Crabs, Pole	259
Coe's Upsetters	184	Crandal's Bow Sockets	245
Coe's Wrenches	81	Creasers, Farriers'	87
Coil Chain	34-35	Cross Bars, Shaft	315
Coil Washers	218	Crow Bars	104
Cold Chisels	102	Cultivator Attachments	38
Cold Cutters	94-95	Cultivator Felloes	290
Cold Rolled Shafting	15	Cultivator Handles	377
Cold Rolled Steel	16-17	Cultivator Shovel Points	40
Cold Shuts	36	Cultivator Shovels	40
Cold Tire Setters	184	Curtain Fasteners	249
Collets, Dies and Taps	125-126	Curtain Frames	251
Little Giant	126	Curtain Lights	251
Collinge Axles	215-216	Curtain Patches, Wagon	250
Colors, Coach	276 to 278	Curtain Roller Supports	250
Columbus Steel Skeins	194	Curtain Roll-up Straps	250
Combination Gears, Ir'n'd	362	Curtain Silk	255
Common Axles	217	Curtain Straps and Fast- eners	250
Common Nails	21-22	Curtain Tassels	255
Com'n-sense Sand Bands	258	Curtains	266
Completely Ironed Jobs		Cushion Attach., Spring	257
.	355 to 362	Cushion Springs	257
Compounds, Welding	34	Cushion Web	255
Compressed Band Wheels		Cushions	269
.	297-298	Cut Beer Barrel Hoops	18
Concealed Hinges	251	Cut Nails	21
Concealed Joints	247	Cutter Fenders	386
Concord Axles	217	Cutter Knees and Beams	386
Concord Express Gears		Cutter Raves	386
.	366-367	Cutter Runners	386
Cone Blocks	151	Cutter Shafts	387
Cone Head Bolts	238	Cutter Shoes	395
Cone Head Nails	45	Cutter Shoe Bolts	53, 397
Connecting Rods	213	Cutter Stuff	386
Coopers' Rivets	45	Cutter Woods	381 to 383
Cord, Seaming	256	Cutters, Axle	140
Corduroy	255	Finished	384-385
Corner Braces	111	Pipe	83
Corner Irons	262	Plug	110
Corrugated Steel Fasten- ers	24	Washer	217
Cotters, Spring	43		
Cotton Duck	254		
Coulter Blades	38		
Coulter Hubs	38		
Coulters, Fin	40		

D

Dalton's Axle Cutters	140
Dalzell's Axles	216
Dandy Anti-Rattlers	236

	PAGE		PAGE
Dandy Punches & Shears	191	E	
Dash Feet	263	Eagle Axle Clips	231
Dash Lamps	263	Eagle Chain Vises	142
Dash Leather	253	Eagle Clamps	80
Dash Rails	263, 265, 398	Eagle Emery Wheels and	
Dashes	263	Goods	71 to 73
Derby Fifth Wheels	223	Eagle Heads	398
Detroit Benders	181	Easy Bolt Clippers	131
Diamond Vise and Anvil	149	Eclipse Hoof Shears	89
Die Holders	124	Eclipse Wrench Attachm'ts	81
Dies, King's Blacksmiths'	126	Edge Blacking	258
Split	123	Elastic Button Holes	250
Taps and Collets	125-126	Elgin Wrenches	81
Differential Pulley Blocks	36	Elliptic Gears Ironed 355 to 359	
Disc Sharpeners	170	Emery	69
Dole's Tuyere Irons	153	Emery Cloth	69
Door Flappers	252	Emery Goods	73
Door Handles	262, 273	Emery Grinding Ma-	
Door Moulding	262	chines	168 to 170
Doty's Shears	192	Emery Paper	69
Doubletrees, see Eveners.		Emery Wheels	71-72
Dowel Pins	22	Emery Wheel Dressers	74
Dowel Pointers	132	Enameled Cloths	254
Drag Teeth	41	End Clips and Hooks	196
Draw Bolts and Clevises	237	End Clips, Singletree	197
Drawing Knives	116	End Gate Fasteners	238, 274
Dressers, Emery Wheel	74	End Yokes, Stay	225
Dressing, Harness	272	Ends, Body Loop	226
Hoof	34	Bolt	59
Top	272	Brace	225, 248
Drift Bolts	20, 59	Canopy Top	248
Drift Spikes	20, 59	Joint	247
Drifting Picks	105	Reach	227
Drifting Pick Eyes	105	Engines, Gas	165
Drifting Pick Handles	378	Engineers' Hammers	93
Drifting Poll Picks	105	Engineers' Wrenches	82
Drill, Enameled	254	Equalizers	213
Rubber	253	Everer Clevises	198
Drill Attachments	149	Everer Plates	198
Drill Bits	98 to 101	Eveners	309
Drill Chucks	96-97	Ever Ready Plow Shares	39
Drill Holders	96	Excelsior	257
Drill Sockets	101	Excelsior Trace attachm'ts	261
Drill Stocks, Ratchet	95-96	Express Bows	318
Drills, 98 to 101, 112-113,		Express Bow Slats	318
..... 173 to 181		Express Eveners	309
Drilling Attachments	110	Express Gears	366-367
Drilling Hammers	103	Express Gearing	345
Drilling Machines	173 to 181	Express Haws	353
Drop Steps, Selle's	339	Express Neck Yokes	307
Dry Colors	279	Express Shaft Steps	339
Duck	253-254	Express Shaft Tips	261
Duck Nest Tuyere Irons	152	Express Shafts	310-311, 315
Dump Carts	106	Express Singletrees	306
Dump Cart Shafts	312	Extension Tops	267
Duplex Gears, Ironed	367	Extras on Files	75 to 78
Dust Hoods	266	Extra Threads and Nuts	
Dusters, Wool	273	on Bolts	59

	PAGE
Eyes, Shaft and Pole.....	236
Eyelets, Knob.....	249

F

Fabrikoid	253
Fancy Grocery Bob Stuff.....	386
Fancy Head Bolts.....	238
Farming Tool Handles.....	378
Farriers' Anvils, "S. D. K.".....	140
Farriers' Aprons.....	95
Farriers' Bellows.....	152
Farriers' Hammers.....	90-91
Farriers' Knife Stones.....	85
Farriers' Knives.....	85
Farriers' Nippers.....	88
Farriers' Pincers.....	88
Farriers' Sledges.....	84
Farriers' Tongs.....	87
Farriers' Tool Boxes.....	84
Farriers' Vises, "S. D. K.".....	142
Fasteners, Corrugated Steel.....	24
Apron.....	274
Curtain.....	249
End Gate.....	238, 274
Knob Patch.....	249
Landau Top.....	274
Seat.....	238
Tank Hoop Lug.....	44
Top.....	274
Whip Socket.....	265, 397
Window Frame.....	274
Feet, Dash.....	263
Forged Sleigh.....	396
Felloe Oilers.....	41
Felloe Plates.....	234
Felloes, Bent.....	289 to 291
Dressed.....	289
Hay Rake.....	290
Sawed.....	289
Felt Polishing Wheels.....	70
Fence Nails.....	21-22
Fenders, Leather.....	264
Cutter.....	386
Ferrules and Hooks.....	196
Ferrules and Rings.....	197
Ferrules, Fork Handle.....	377
Fifth Wheels.....	220 to 223
Figures, Steel.....	42
File Brushes.....	75
File Cards.....	75
File Handles.....	75
Files.....	75 to 78
Filers' Vises.....	143, 145-146, 150
Fin Coulters.....	40
Finished Bob Sleighs.....	404 to 406
Finished Bob Tongues.....	387

	PAGE
Finished Bob Woods.....	401 to 403
Finished Cutters.....	384-385
Finished Grocery Bob Woods.....	401
Finished Neckyokes.....	273
Finished Sleighs.....	384-385
Finished Wood Gear- ing.....	341 to 353
Finishing Nails.....	21-22, 24, 252
Fire Pots.....	153
Fitting Hammers.....	90-91
Flappers, Door.....	252
Flat End Singletrees.....	307
Flat Rail.....	12
Flatters.....	94-95
Flint (or Sand) Paper.....	68
Flint Quartz.....	69
Flooring Brads.....	21-22
Foot Power Band Saws.....	171-172
Foot Power Grinders.....	170
Foot Power Hammers.....	165
Foot Rails.....	245
Foot Vises.....	150
Foot Warmers.....	398
Fore Punches.....	87
Forged Wrenches.....	81-82
Forges.....	157 to 164
Forging Tools.....	94-95
Forgings, Canopy Top.....	248
Sleigh.....	396
Four-horse Eveners.....	309
Frames, Canopy Top.....	376
Curtain.....	251
Hack Saw.....	116-117
Fray's Corner Braces.....	111
French Cane Work.....	275
French Tufts.....	252
Friction Vises.....	144
Fringes.....	256
Frogs, Lace.....	257
Front Body Steps.....	218
Full Backs.....	269
Full Stocked Screw Plates.....	122
Fullers.....	94-95
Furnaces, Heating.....	157

G

Galvanized Pump Rods.....	14
Galvanized Sheets.....	14
Galvanizing Iron and Steel.....	14
Gallagher Tuyere Irons.....	153
Garnet Paper.....	69
Gas and Oil Engines.....	165
Gasoline Torches.....	84
Gates, Blast.....	154-155
Gauges.....	88, 134, 139
Gear Irons.....	229-230
Gear Woods, Platform.....	340

	PAGE
Gearing, 288, 341 to 354, 387	
Gears, Ironed	319 to 339, 347, 362 to 367
Selle's.....	319 to 339
Wagon.....	299
Giant Hoof Parers.....	89
Giant Punch and Shears.....	186
Giant Tire Benders.....	182
Gimlet Bits.....	113
Gimp Tacks.....	252
Gipsev Vises.....	142
Globe Head Tuyere Irons and Plates.....	153
Glue.....	68
Glue Pots.....	68
Goat Skins.....	253
Goddard Slat Irons.....	246
Goodenough Horseshoes.....	27
Graders, Surface.....	106
Grinding Machines.....	168 to 170
Grindstones and Hangers.....	74
Grocery Bob Shoes.....	395
Grocery Bob Stuff.....	386
Grocery Bob Woods.....	401
Grommets.....	250
Grommet Sets.....	250
Grub Hoes.....	104
Guard Strings.....	257

H

Hack Saw Blades.....	116-117
Hack Saw Frames.....	116-117
Hack Saws.....	116-117
Hair.....	257
Hair Pickers.....	257
Half Patent Axles.....	214-215
Half Platform Gears.....	363-364
Half-Round Short Spring Clips.....	234
Hammer Handles.....	378
Hammer Straps.....	198
Hammers.....	90 to 93, 102-103, 165 to 167
Hand Axes.....	113
Hand Blowers, B. S.....	155-156
Hand Hammers.....	91
Hand Taps.....	130
Handle Nuts.....	242, 273
Handles.....	262, 273, 377-378
Handy Anvils.....	140
Handy Wagon Jacks.....	379-380
Hangers, Body.....	227
Grindstone.....	74
Hardies.....	91, 94-95
Hardwood Lumber.....	288
Harness Dressing.....	272
Harness Leather.....	253
Harness Needles.....	275

	PAGE
Harrow Disc Sharpeners.....	170
Harrow Teeth.....	41
Harrow Timber.....	288
Harvey Tire Heater.....	185
Hatchets, Bench.....	113
Hawns, Wagon.....	288
Hay Rack Irons.....	202
Hay Rake Felloes.....	290
Hay Rake Hubs.....	293
Hay Rake Spokes.....	294
Head Blocks.....	351, 354
Head Block and Reach Plates.....	224
Head Block Plates.....	224
Head Bl'k Plates, Socket.....	224
Headers, Bolt.....	150
Heading Tools.....	94-95
Heads, Eagle.....	398
Forged Sleigh.....	396
Heaters, Tire.....	185
Heating Furnaces.....	157
Helwig's Bolt Clippers.....	131
Henderson Cold Tire Set- ters.....	184
Herbrand's Gear Irons.....	230
Hickory Axles.....	286
Hickory Gearing.....	354
Hickory Handles.....	378
Hickory Wedges.....	318
Hinge Nails.....	21-22
Hinges.....	251
Hoe Handles.....	378
Hoes, Grub.....	104
Holdbacks.....	198, 236
Holder Tassels.....	255
Holders, Die.....	124
Drill.....	96
Landside.....	59
Pole.....	224
Stake.....	242
Holland's Vises.....	149
Hollow Augers.....	132 to 134
Hollow Auger Knives and Blanks.....	134
Holt's Tuyere Irons.....	154
Hoods, Dust.....	266
Hoof Dressing.....	34
Hoof Nippers.....	89
Hoof Pads.....	29-30
Hoof Parers.....	89
Hoof Shears.....	89
Hoof Testers.....	87
Hook Head Spikes.....	19
Hooks, Bench.....	110
Boot.....	274
Canopy Top.....	250
Carpet.....	251
Chain.....	36

	PAGE
Hooks, Rein	258
Seat	202
Singletree	196-197, 237
Hooks and Clevises, Single- tree	237
Hooks and Ferrules, Sing- gletree	196
Hoop Lugs and Locks, Tank	44
Hoops, Cut Beer Barrel . . .	18
Horizontal Drills	173
Horse Clippers	32
Horse Nails	31
Horse Rasps	75, 78
Horse Shoe Calks	31
Horse Shoe Iron	4
Horse Shoe Pads	29-30
Horse Shoes	27-28
Horse Tooth Files	78
Hose Cart Wheels	297
Hot Cutters	94-95
Hounds, see Hawns	288
House Jack Screws	68
House Movers' Rollers . . .	377
Hub Bands	258-259
Hub Borers	136 to 138
Hub Boxing Gauges	139
Hub Boxing Machines	136 to 138
Hub Reamers	139
Hubs	292-293
Coulter	38
Humane Tug Posts	261
Huntington's Emery Wheel Dressers	74

I

Ideal Clamps	40
Ideal Drilling Attachm'ts . .	110
Ideal Gear Irons	229
Ideal Punches	190
Ideal Tire Benders	182
Ideal Tire Upsetters	183
Illinois Vises	149
Illustrations of Gears	320-321
Illustrations of Springs . . .	206-207
Illustrations of Vises	145
Imitation Cane work	275
Imitation Leather	253
Implement Paint	278
Imp'd West'n Horse Nails . .	31
Ink, Burnishing	258
Inside Door Handles	273
Iron	1 to 4
Classification of	1 to 4
Weights of	407 to 411

	PAGE
Iron Studs	61
Iron Washers	53
Irons, Canopy Top	248
Cart Heel	234
Shaft	234
Wear	200, 228
Wrought Sleigh	396
Ironed Brewster Reaches . .	347
Ironed Eveners	309
Ironed Gears	319 to 339, 347, 362 to 367
Ironed Jobs, White	355 to 362
Ironed Neckyokes	307
Ironed Plow Singletrees . .	307
Ironed Poles	315
Ironed Reaches	347
Ironed Shaft	315
Ironed Singletrees	306
I.X.L. Punches	191

J

Jack Screws	67-68
Jack Shoes	27
Jacks, Coupling	236
Wagon	379-380, 424
Jacobson Friction Vises . .	144
Jaws, Drill Chuck	96-97
Jennings' Bits	112
Jewel Spoke Ten. Frame . .	134
Jewelers' Vises	146
Jobs, Ironed	355 to 362
Johnson's Anti-Rattlers . .	236
Joiners' Clamps	79
Joint Ends	247
Joint Rivets	246
Joint Rivet Washers	246
Joints	247
Stump	248
Top	247
Jones' Nut Locks	38
Jump-Seat Tops	266

K

Keg Hoops	18
Key-Seating	17
Keys, Machine	42
Spring	41-42
King Bolts	199
Clip	225
Sleigh	199, 395
Wagon	199
King Bolt Braces and . . .	226
Yokes	226
King Bolt Plates	225
King Bolt Yokes, Clip . . .	225
King Bolt Yokes with Brace End	225
King's B.S. Taps and Dies .	126

	PAGE
King's Roller-Bearing	
Fifth Wheels	221-222
King's Screw Plates	119
King's Stocks and Dies	119
Knees and Beams	386
Knees, Brown's Oscillat- ing	392-393
Forged Sleigh	396
Rempis	392
Sleigh	392 to 394, 396
Success	394
Knife Sharpeners, Emery	73-74
Knife Stones	85
Knife and Tool Grinders	168, 170
Knives	85, 116 132
Knob Eyelets	249
Knob Patch Fasteners	249
Knob Patch Punches	249
Knobs Carriage	249

L

Lace	257
Lace Frogs	257
Lace Plates	274
Lace Tacks	252
Ladd's Anti-Rattlers	236
Lag (or Coach) Screws	62
Lamp Blacks	279
Lamps, Carriage	263
Dash	263
Landau Top Fasteners	274
Landau Top Props	246
Landau Window Frame Fasteners	274
Landside Holders	39
Landside Plates	39
Landside Points	40
Landside Welder	39
Lap Links	36
Lap Rings	36
Larson Pincers	88
Lathes, Screw Cutting	173
Lays, Plow	39
Lazy Back Irons	245
Lazy Backs, Wood	376
Leader Forges	158
Leather	253
Leather Aprons	95
Leather Box Loops	250
Leather Buckle Loops	250
Leather Cloth	254
Leather-Covered Bow Sockets	245
Leather Dashes	263
Leather Fenders	264
Leather Neckyoke Centers	239
Leather Polishing Wheels	70

	PAGE
Leather Washers	218
Leathers, Shaft	273
Lengths of Nails	25
Le Page's Glue	68
Letters, Steel	42
Transfer	278
Levelers, Road	101
Leveling Blocks	151
Lever Handles	273
Lifts, Sash	274
Lights, Curtain	251
Linen Thread	256
Lining, Cloth	254
Lining Nails	21-22, 252
Links, Lap	36
Open	36
Liquid Glue	68
Lister Shares	39
Little Giant Dies, Taps and Collets	126
Little Giant Drills	178
L. G. Screw Plates	121 to 127
Little Giant Taps and Dies	126
Lock Chains	202
Lock Shoes, Brake	201
Locks, Coach	251
Jones' Nut	38
Nut	247
Spring Box	252
Tank Hoop	44
Locomotive Jack Screws	67
Log Chains	34
Logging Runners	388 to 390
Long Distance Axles	215
Long Joint Ends	247
Long Runners	391
Loop Ends, Body	226
Loops, Body	226
Buckle and Box	250
Lugs, Tank Hoop	44
Lumber	288

M

Macadamizing Hammers.....	103
Machine Bolts.....	58
Weights of.....	412
Machine Keys.....	42
Machine Nut Taps.....	129
Machine Screw Taps.....	128
Machine Screws.....	65
Machine Silk.....	256
Machinery Steel.....	7
Machinists' Hammers...	92
Machinists' Hand Taps.....	130
Machinists' Screw Plates.....	121
Machinists' Vises.....	143 to 149
Machinists' Wr'rch, F'gd ..	81

	PAGE
Magic Bolt Clippers.....	131
Major Cloth.....	253
Malleable Hub Bands.	259
Malleable Irons.....	240 to 243
Mallery's Fit. Hammers ..	91
Mandrels.	117, 137, 151
Mandt's Finished Bob Sleighs.....	406
Marking Gauges	134
Marshall's Thread	256
Marvel Punch and Shears..	188
Mash Hammers	103
Masons' Hammers.....	103
Mason's Runner Attach- ments	399
Massey's Vises.....	148
Materials for Tops	271
Mats, Carriage.....	272
Matting, Rubber	255
Mattock Handles.....	378
Mattocks	104
Maul Handles	378
Mauls	41, 104
Measuring Tops, Rules for.	270
Measuring Wheels, Tire ...	84
Medium Backs.....	269
Metal Buckle Loops	250
Mills, Paint	284
Miscellaneous Wire Nails	23-24
Model Makers' Screw Plates	122
Mogul Draught Springs ..	203
Mole's Adj. Iron Clamps ..	80
Mole's Tire Upsetters.....	183
Moleskin	254
Morse Twist Drill Bits.....	98 to 101
Moss.....	257
Mouldboards.....	40
Moulding	262, 318
Moulding Finishers	262
Mud Sled Runners.....	390-391
Mule Shoes	27
Muslin, Enameled	254

N

Nail Gauges.....	88
Nail Hammers	93
Nail Head Nippers	89
Nail Punches.....	87
Nail Rods	1
Nail Stamps.....	87
Nails. 21 to 24, 31, 45, 252, 259	
Nailing Hammers.....	93
Name Plate Nails	259
Name Plates.....	273
Napping Hammers	103

PAGE

National Drill Chucks	97
National Tubular Axles	195-196
Neckyoke Center Irons ...	197
Neckyoke Centers.....	239
Neckyoke Eyes.....	198
Neckyoke Eyes and Rings.	198
Neckyoke Plates.....	198
Neckyoke Rings and Fer- rules.....	197
Neckyoke Tips.....	261
Neckyokes.....	273, 307-308
Needles.....	275
Nelson's Fifth Wheels.....	222
Neverslip Toe Calks	31
New Ideal Moles's Tire Upsetters	183
New York Platform Gear Woods.....	340
Nippers.....	88-89
No. 400 Blowers.....	156
Norton's Tuyere Irons ...	152
Norway Iron.....	1 to 4
Novelty Disc Sharpeners...170	
Nut Locks (for Props) 247 Jones'	38
Nut Splitters.....	132
Nut Tappers.....	120
Nut Taps	129
Nuts. 47 to 52, 246, 273-274	

O

Oakum.....	34
Odometers.....	275
Offsets, Canopy Top.....	248
Oil	217
Oil Carpet.....	255
Oil Stones, Emery	74
Oiled Duck	254
Oilers	41
Oiling Tanks.....	41
Open Hearth Steel	5 to 9
Open Links	36
Ore Picks	105
Ornaments, Transfer	278

P

Pads, Hoof	29-30
Step	218
Toe.....	272
Paint and Varnish Re- mover	284
Paint Brushes	284
Paint Burners	284
Paint Mills.....	284
Paint Press.....	284
Paints and Colors ..276 to 279	
Panel Backs, Bent....	269, 376

	PAGE		PAGE
Panel Protectors.....	272	Plates, Landside.....	39
Panels, Basswood.....	318	Name.....	273
Paper, Emery.....	69	Neck Yoke.....	198
Sand or Flint.....	68	Reach.....	198
Paper Polishing Wheels....	70	Screw.....	119 to 125
Parallel Vises.....	146	Sill.....	275
Parers, Hoof.....	89	Singletree.....	237
Parker's Vises.....	145 to 147	Step.....	219-220
Paste, Trimmers'.....	257	Tongue and Eveners..	198
Pasteboard.....	257	Transom.....	199
Pasting Lace.....	257	Platform Body Couplings..	213
Patch Bolts.....	60	Platform Circles.....	222
Patch Fasteners.....	249	Platform Gear Wood.....	340
Patches, Wagon Curtain..	250	Platform Gears.....	319 to 339
Patent Brads.....	24, 252	Platform Poles.....	317
Patent Spokes.....	294	Platform Shafts.....	314
Patent Tufts.....	252	Platform Spring Shackles..	213
Patent Wheels.....	295 to 299	Plow Beams.....	38, 377
Peerless Tire Benders.....	182	Plow Bolts.....	57
"Perfect" Rubber Tires...	300 to 304	Plow Eveners.....	309
"Perfect" Vises.....	148	Plow Hammers.....	93
Perfected (Detroit) Bend-		Plow Handles.....	377
ers.....	181	Plow Lays.....	39
Perkins Shoes.....	27	Plow Points.....	40
Perkins Toe Calks.....	31	Plow Rounds.....	377
Phaeton Backs, Bent.....	376	Plow Shapes.....	39-40
Phaeton Sill Plates.....	275	Plow Shares.....	39
Phaeton Steps.....	219	Plow Singletrees.....	307
Phaeton Tops.....	266	Plow Steel.....	11
Phoenix Horse Shoes.....	27	Plows.....	106
Pick Eyes.....	105	Plug and Screw Bits with	
Pick Handles.....	378	Plug Cutter.....	110
Pick Tongs.....	86	Plug Cutters.....	110
Pick-up Tongs.....	86	Plugs and Feathers.....	102
Picks.....	104-105	Plugs, Steel.....	102
Pickers, Hair.....	257	Whitewood.....	318
Pillow Springs.....	257	Plushes.....	255
Pincers.....	88	Plymouth Punch and	
Pine Tar.....	34	Shear.....	186
Pins, Reach.....	198	Point Bands.....	258-259
Pipe Boxes.....	216-217	Sizes for Sarven	
Pipe Cutters.....	83	Wheels.....	295
Pipe Reamers.....	128	Point Center Clips.....	232, 396
Pipe Screw Plates.....	127-128	Pointers, Dowel.....	132
Pipe Stocks and Dies.....	127-128	Spoke.....	132
Pipe Taps.....	128	Points, Cultivator Shovel .	40
Pipe Tongs.....	83	Landside.....	40
Pipe Vises.....	145, 147-148, 150	Plow.....	40
Pipe Wrenches.....	83	Seeder.....	40
Planer Head Bolts.....	60	Pole Attachments.....	339
Plate Nails.....	31, 259	Pole Caps.....	198
Plated Seat Handles.....	262	Pole Chains.....	202
Plates, Bolster.....	199	Pole Circles.....	317
Equalizer.....	213	Pole Couplers.....	236
Felloe.....	234	Pole Couplings.....	235
Head Block.....	224	Pole Crabs.....	259
Lace.....	274	Pole Eyes.....	236
		Pole Holders.....	224

	PAGE
Pole Sockets.....	224
Pole Supports.....	203
Pole Tips.....	260
Poles, Carriage.....	315-316
Ironed.....	315
Painted.....	315
Platform.....	317
Truck.....	287
Wagon.....	287
Polishing Wheels, Canvas..	70
Poll Picks.....	105
Pope's Farriers' Knives...	85
Porter's Long Distance Axles.....	215
Portland Cutter Woods	382-383
Portland Sleighs.....	384
Posts, Circle.....	200
Potash.....	34
Power Blowers.....	154
Power Drills.....	174 to 181
Power Hammers.....	165 to 167
Power Punches and Shears	189
Powers' Fire Pots.....	153
Pratt's Drill Chucks.....	97
Premium Singletree Hooks.	237
Prentiss' Vises.....	143
Press, Tecktonius' Box...	139
Pritchels.....	88
Prop Block, Top.....	247
Prop Block Washers.....	247
Prop Nuts and Rivets.....	246
Props, Top.....	246
Prospecting Picks.....	105
Prospectors' Forges.....	163
Protectors, Panel.....	272
Prussiate of Potash.....	34
Pulley Blocks.....	36-37
Pull-To Handles.....	273
Pump Rods.....	14
Punches.....	94-95, 190-191
Farriers' Fore.....	87
Knob Patch.....	249
Nail.....	87
Punches and Shears	186 to 189
Punching Machines ..	190-191
Putnam Nails.....	31

Q

Q. & C. Metal Saws.....	171
Quarry Picks.....	104
Quartz, Flint.....	69
Quick Return Drills.....	
.....	177, 179 to 181
Quick Shifters.....	236

R

Racing Plates.....	28
--------------------	----

	PAGE
Rafting Chains.....	34
Rail Attachments, Shift- ing.....	245
Railing Leather.....	253
Rail, Tee.....	12
Rails, Adjustable Arm....	398
Dash.....	263, 265, 398
Shifting.....	245
Toe.....	245
Railroad Picks.....	105
Railroad Spikes.....	19
Rake Handles.....	378
Rake Teeth.....	288
Randall Bolt Clippers.....	131
Rasp Handles.....	75
Rasps, Horse.....	75, 78
Wood.....	78
Ratchet Drill Stocks.....	95-96
Ratchet Nut Wrenches....	81
Ratchets, Bit Brace.....	111
Brake.....	201
Rattan Moulding.....	318
Raves, Cutter.....	386
Reach Ends.....	227
Reach Pins.....	198
Reach Plates.....	198
Reach Sockets.....	227
Reaches and Head Blocks, Ironed.....	347
Reaches, Carriage.....	
.....	347, 351-352, 354
Wagon.....	286
Reamers, Hub.....	139
Pipe.....	128
Taper.....	130
Rein Hooks.....	258
Rempis Sleigh Knees.....	392
Repair Patches.....	249
Reynolds' Axle Gauges...	139
Rests, Top.....	247
Rice's Punches.....	190
Rim Bands.....	258-259
Rim Wrenches.....	80
Rims, Bent.....	289 to 291
Rings and Eyes, Neck- yoke.....	198
Rings and Ferrules, Neck- yoke.....	197
Rings, Beetle.....	41
Lap.....	36
Riveting Burrs.....	45
Riveting Hammers.....	92, 103
Rivets.....	45-46, 246, 250
Weights of.....	413
Rivets for Wheels.....	45, 298
Road Carts.....	354
Road Levelers.....	106
Road Scrapers.....	106

	PAGE		PAGE
Rods, Box	199	Saw Blades, Stone	9
Connecting	213	Saw Filers' Vises.....	150
Roller-Bearing Axles	216	Saw Files, Taper.....	77
Roller-Bearing Fifth		Saw Mandrels or Arbors ..	117
Wheels	221-222	Saw Sets.....	117
Roller Chafe Irons	228	Saws	116 to 118, 171-172
Roller Supports, Curtain ..	250	Scofield's Runner Attach-	
Roller Wear Irons.....	228	ments.....	400
Rollers, House Movers'....	377	Scraper Irons.....	395
Rolling Coulter Blades....	38	Scrapers, Road.....	106
Roll-up Straps, Curtain ..	250	Screw and Plug Bits with	
Roof and Bridge Bolts	59	Cutters.....	110
Roofing Iron and Steel....	14	Screw Clamps.....	80
Root's Tuyere Irons	153	Screw Cutting Lathes....	173
Rough Stuff Paint ..	279, 282	Screw Eyes.....	198
Rounds, Plow	377	Screw Eyes and Rings ..	198
Royal "H." Hand Blowers..	156	Screw Plates.....	119 to 125
Royal W. C. Forges.....	161 to 163	Screw Plates, Pipe	127-128
Royal W. C. Tuyere Irons..	154	Screw Plate Stocks.....	
Rub (or Wear) Irons	200	.....	122, 124-125, 127
Rubber Anti-Rattlers	236	Screws.....	62 to 68
Rubber Cloth	253	Drill Chuck.....	96-97
Rubber Drill.....	253	Bench.....	110
Rubber Head Tacks.....	274	Screws for Wheels.....	298
Rubber Horse Shoes	28	Scrims	256
Rubber Matting.....	255	Sea Moss.....	257
Rubber Pad Body Steps....	220	Seaming Cord.....	256
Rubber Spring Buffers	202	Seaming Lace.....	257
Rubber Tires	300 to 304	Sear's Punch and Shears..	187
Rubber, Top Prop Block....	247	Seat Fasteners.....	238
Whip Cord Back.....	253	Seat Handles	262
Rugs, Carpet	272	Seat Hooks.....	202
Runner Attachments.....	399-400	Seat Spindles	376
Runners, Bob.....	388	Seat Springs	202, 204
Cutter	386	Seats.....	265, 375
Logging.....	388 to 390	Section Rivets.....	45
Long	391	Seeder Points.....	40
Sleigh.....	388 to 391		
S		Selle's Platform Gears	
Saddle Clips.....	233	.....	319 to 339
Saddle Nails.....	252	Set Hammers.....	94-95
Safety Straps.....	273	Set Screws.....	64
Sail Duck.....	254	Sets, Grommet.....	250
Sandage Steel Skeins.....	194	Seward's Clips.....	231 to 233
Sand Bands, Com'n Sense..	258	Seward's Gear Irons	229
Sand Boards, Oak.....	286	Shackle Bolts.....	237
Sand Cloth.....	69	Shackles, Spring.....	213
Sand Paper.....	68	Shaft Anti-Rattlers.....	236
Sarven Spokes.....	294	Shaft Bolts.....	238
Sarven Wheels.....	295 to 299	Shaft Coupling Bolts....	237
Sarven Wheel Rivets	45	Shaft Coupling Parts....	235
Sash Lifts.....	274	Shaft Couplings.....	235
Satins.....	255	Shaft Couplers	236
Sawed Benches.....	387	Shaft Cross Bars.....	315
Sawed Felloes.....	289	Shaft Ends, Socket.....	261
Saw Blades, Band.....	171	Shaft Eyes.....	236
Hack.....	116-117	Shaft Holdbacks	236
		Shaft Irons.....	234

	PAGE		PAGE
Shaft Jacks.....	236	Singletree Center Clips and	
Shaft Leathers.....	273	Rings.....	197
Shaft Rubbers.....	236	Singletree Ends.....	260
Shaft Shackles.....	235	Singletree End Clips.....	197
Shaft Steps.....	339	Singletree End Clips and	
Shaft Straps.....	273	Hooks.....	169
Shaft Steel.....	12	Singletree Hooks 196-197, 237	
Shaft Supports.....	203, 236	Singletree Hooks and Clev-	
Shaft Tips.....	261, 398	ises.....	237
Shafts.....	310 to 315, 387	Singletree Hooks and Fer-	
Shafting, Steel.....	7, 15	rules.....	196
Shanks, Step.....	219	Singletree Plates.....	237
Shares, Plow.....	39	Singletree Straps.....	196
Sharp Center Clips.....	232	Singletree Tips.....	260
Sharpeners, Disc.....	170	Singletrees.....	306-307
Knife.....	73-74	Skein Bolts.....	62
Shaves, Spoke.....	114 to 116	Skein Nuts.....	194
Shears and Punches 186 to 189		Skein Screws.....	62, 196
Shears.....	191-192	Skeins, Thimble.....	194
Trimmers?.....	275	Slats, Bow.....	318
Sheepskin Aprons.....	95	Slat Irons.....	246
Sheet Iron and Steel.....	14	Sledge Handles.....	378
Weights of.....	411	Sledges.....	84, 103-104
Shell Band Spokes.....	294	Sleeve Sockets.....	101
Shell Band Wheels.....	295	Sleigh Clips.....	396
Shifting Rail Attachments.....	245	Sleigh Couplings.....	395
Shifting Rail Clips.....	245	Sleigh Feet, Heads and	
Shifting Rails.....	245	Knees.....	396
Shingle Nails.....	22	Sleigh Forgings.....	396
Ship Mauls.....	104	Sleigh Gearing.....	387
Shipping Weights.....	417 to 419	Sleigh Knees.....	392 to 394
Shoeing Racks.....	33	Sleigh Runners.....	388 to 391
Shoe Pads, Horse.....	29-30	Sleigh Shoe Bolts.....	53, 396
Shoe Steel.....	13, 395	Sleigh Shoe Steel.....	13, 395
Shoes.....	26-27	Sleigh Shoes.....	395
Cast Bob.....	395	Sleigh Steps.....	395
Cutter.....	395	Sleigh Woods, Bob 401 to 403	
Grocery Bob.....	395	Sleighs.....	334-385, 404 to 406
Horse.....	27	Snatch Blocks.....	37
Mule.....	27	Snell's Auger Bits.....	112
Shop Saws, Q. & C.....	171	Snow Shoes.....	27
Short Joint Ends.....	247	Socket Coach K. B. Plates.....	225
Short Spring Clips.....	234	Socket Shaft Ends.....	261
Shrinkers, Tire.....	183 to 185	Sockets, Drill.....	101
Side Bar Clips.....	230	Bow.....	245-246
Side Bars.....	353-354	Pole.....	224
Side Braces.....	200	Reach.....	227
Side Weight Shoes.....	27	Whip.....	265, 397
Silk, Curtain.....	255	Soft Steel.....	5 to 9
Machine.....	256	Sole Knives.....	85
Silk Fringe.....	256	Sorting Hammers.....	103
Sill Plates, Phaeton.....	275	Spauling Hammers.....	103
Silver's Drills.....	175 to 177	Speaking Tubes.....	274
Simplex Shears.....	192	Speed of Drills.....	414
Singer Duplex Gears.....	367	Spencer Seat Springs.....	202
Single Bend Poles.....	316	Spike Mauls.....	104
Singletree Bolts.....	237	Spikes.....	19 to 22
Singletree Center Clips.....	197	Boat.....	20

	PAGE		PAGE
Spikes, Drift.....	20	Steel Bands.....	5-6
Railroad.....	19	Steel Classification.....	5 to 9
Spindle Seats.....	375	Steel Fasteners, Corrugated	24
Spindles, Seat.....	376	Steel Figures and Letters.	42
Splinter Bar Shackles.....	213	Steel Hoops.....	8-9
Split Die Screw Plates.....	123	Steel Plow Beams.....	38
Splitting Shears.....	192	Steel Plugs.....	102
Spofford's Bit Braces.....	111	Steel Rails.....	12
Spoke Marking Gauges.....	134	Steel Shafting.....	15
Spoke Pointers.....	132	Steel Stamps.....	42
Spoke Shaves.....	114 to 116	Steel Tire.....	7
Spoke Tenon Ma-		Steel Washers, Thin.....	53
chines.....	134 to 136	Steel Wheelbarrows.....	107 to 110
Spokes.....	293-294	Steel Wire Nails.....	22
Spring Bar Clips.....	230	Steeple Head Bolts.....	238
Spring Bars.....	349-350, 354	Step Bolts.....	233
Spring Blocks.....	207	Step Pads.....	218
Spring Bolts.....	212	Step Plates.....	219-220
Spring Box Locks.....	252	Step Shanks.....	219
Spring Buffers, Rubber.....	202	Steps.....	218 to 220, 339, 395
Spring Clips, Half round.....	234	Stick Seats.....	375
Spring Cotters.....	43	Trimnings for.....	269
Spring Curtain Roller Sup-		Stiff Pole Attachments.....	339
ports.....	250	Stillson's Wrenches.....	83
Spring Cushion Att'mts.....	257	Stocks and Dies.....	119 to 127
Spring Equalizers.....	213	Stocks, Drill.....	95-96
Spring Keys.....	41-42	L. G. Plate.....	124-125
Spring Roller Supports.....	250	Pipe.....	127-128
Spring Shackles, Platform.....	213	Split Die.....	124
Spring Steel.....	11	Stoddard's Tire Upsetters.....	184
Spring Wagon Gear Irons.....	229	Stonecutters' Hammers.....	103
Spring Wagon G'ring.....	344-345	Stone Hammers.....	103
Ironed.....	360, 362	Stone Picks.....	104
Springs.....	202 to 212, 257	Stone Saw Blades.....	9
Bolster.....	203-204	Stone Sledges.....	103
Boot.....	272	Stone Tooth Axes.....	102
Capacity of.....	416	Stone Wedges.....	102
Cushion.....	257	Stone's Fifth Wheels.....	220
Pillow.....	257	Storm's Fifth Wheels.....	223
Seat.....	202, 204	Stove Bolt Taps.....	126
Weights of.....	208 to 211	Stove Bolts.....	57
Window.....	274	Straight Heel Shafts.....	314
Square Center Singletrees.....	306	Straight Poles.....	317
Stake Holders, Wagon.....	242	Straight Shank Drills.....	101
Stakes, Wagon.....	201	Straps and Fasteners, Cur-	
Stamps, Steel.....	42	tain.....	250
Nail.....	87	Straps, Box.....	200
Staples, Box.....	200	Curtain.....	250
Star Punches.....	191	Hammer.....	198
Stationary Forges.....	158-159	Safety.....	273
Stay Braces.....	227	Shaft.....	273
Stay Chains.....	202	Singletree.....	196
Stay End Yokes or Ties.....	225	Straw (or Card) Board.....	257
Stay Webbing.....	256	Striking Hammers.....	103
Stays, Back.....	247	Stud Bolts.....	61
Stearns' Bench Drills.....	173	Studs, Iron.....	61
Steel.....	5 to 14	Stump Joints.....	248
		Success Sleigh Knees.....	394

	PAGE
Subsoilers	39
Sulky Gearing	353
Sulky Rims or Felloes	290
Sulky Shafts	315
Sulky Spokes	294
Sulky Wheels	298
Sunshades	272
Sun Tire Upsetter	185
Supports	203, 236, 250
Surefoot Toe Calks	31
Surface Graders	106
Surrey Bodies	371-372, 374
Surrey Gears, Ironed	362
Surrey Gear Irons	229
Surrey Step Plates	219
Surrey Step Shanks	219
Surrey Steps	219
Sutton's Tuyere Irons	152
Swage Blocks	151
Swages	94-95
Sway Bars	288
Swedish Iron	1 to 4
Sweet's Toe Calks	31
Swell Body Cutter Woods	381
Swell Body Sleighs	384
Sword End Singletrees	307
Syracuse Drill Bits	113
Syracuse Wood Brace Drills	113
T	
Tables of Weights	407 to 419
Tackle Blocks	37
Tacks	252, 274
Tail Board Rods	199
Tamping Picks	105
Tan Back Drill	254
Tanged Horse Rasps	78
Tanite Emery	69
Tanite Grinding Machines	169
Tank Hoop Lugs	44
Tanks, Wheel Oiling	41
Taper Reamers	130
Taper Shank Drills	99
Taper Sockets	101
Tap Bolts	60
Tap Wrenches	80, 124
Taps	122-
123, 125-126, 128 to 130	
Collets, Dies and	125
Pipe	128
Tar, Pine	34
Tassels	255
Tecktonius' Bolster Springs	203
Tecktonius' Box Press	139
Tee Rail	12
Tee Steel	13

	PAGE
Teeth, Harrow (or Drag)	41
Rake	288
Tenoners, Spoke	134 to 136
Testers, Hoof	87
Thills	310 to 315
Thimble Skeins	194
Thin Steel Washers	53
Third Person Seats	265
Thompson Tuyere Irons	153
Thread	256
Threaded Nuts	49 to 51
Three Horse Eveners	309
Three Spring Gears	363 to 367
Ties or Yokes	225, 234
Timber, Hardwood	288
Harrow	288
Timken R. B. Axles	216
Tip3, Plated	260-261
Neckyoke	261
Pole	260
Shaft	261, 398
Singletree	260
Tire Benders	181-182
Tire Bolts	56
Tire Bolt Wrenches	80
Tire Bolters	80
Tire Heaters	185
Tire Measurers	84
Tire Removers	185
Tire Rivets, California	45
Tire Setters	185
Tire Setters and Coolers	185
Tire Shrinkers	183 to 185
Tire Travelers	84
Tire Upsetters	183 to 185
Tire Upsetter Punch and Shears	184
Tire, Rubber	300 to 304
Tired Wheels	299
Tiring Wheels, Cost of	299
Toe Calks	31
Toe Calk Dies	32
Toe Calk Steel	11
Toe Knives	85
Toe Pads	272
Toe Rails	245
Toe Weight Shoes	27
Tongs	83, 86-87
Tongue Caps	198
Tongue Chains	202
Tongue Hawns	288
Tongue Irons	198
Tongue Plates	198
Tongue Supports	203
Tongues, Bob	387
Wagon	287
Tool Boxes, Farriers'	84
Tool Handles	378

	PAGE		PAGE
Tool Steel.....	10	Tug Posts.....	261
Tools, Forging.....	94-95	Tug Stops.....	274
Trimmers.....	275	Turnbuckles.....	61
Tooth Axes.....	102	Turning Hammers.....	90-91
Tooth Files, Horse.....	78	Turning Sledges.....	84
Top Braces.....	247	Tuyere Irons.....	152 to 154
Top Dressing.....	272	Twine, Tufting.....	256
Top Joints.....	247	Twist Drill Bits.....	113
Top Leather.....	253		
Top Mauls.....	104	U	
Top Offsets.....	248	Umbrellas.....	272
Top Prop Block.....	247	Union Cloth.....	254
Top Prop Block Washers.....	247	Union Knife and Tool	
Top Prop Nuts and Rivets.....	246	Grinders.....	170
Top Prop Washers.....	247	Universal Spoke Shaves.....	116
Top Props.....	246	Universal Spoke Tenoners.....	135
Top Rests.....	247	Upsetters, Tire.....	183 to 185
Top Stays.....	247	Utah or Swell Bows.....	318
Top Fasteners, Landau.....	274		
Top Forgings, Canopy.....	248	V	
Top Frames, Canopy.....	376	Valances.....	256
Top Joints.....	247	Valley Bent Knee Bob	
Top Leather.....	253	Woods.....	402
Top Rails, Shifting.....	245	Varnishes.....	280 to 283
Top Sockets, Canopy.....	248	Velvet Carpets.....	255
Top Standards, Canopy.....	248	Victor Vises.....	145, 147
Tops, Carriage.....	266-267	Vise Boxes and Screws.....	142
Wagon Sunshade.....	272	Vises.....	142 to 150
Tops and Trim'ngs.....	266 to 271	Vulcan Vises.....	147
Torches.....	84		
Tow.....	257	W	
Trace Attachments.....	261	W. & W. Punches, No. 4.....	190
Trace Bolts or Posts.....	238	Wadding.....	256
Track Chisels.....	94-95	Wagon and Implement	
Track Shoes.....	28	Paints.....	278
Transfer Ornaments.....	278	Wagon Bows.....	318
Transom Plates.....	199	Wagon Bow Slats.....	318
Travelers, Tire.....	84	Wagon Box Cleats.....	201
Trimmed B'gy N'kyokes.....	308	Wagon Box Nails.....	45
Trimmers' Clips.....	275	Wagon Box Rivets.....	45
Trimmers' Hammers.....	275	Wagon Box Steel.....	12
Trimmers' Paste.....	257	Wagon Brakes.....	201
Trimmers' Shears.....	275	Wagon Chains.....	202
Trimmers' Tacks.....	252	Wagon Curtain Patches.....	250
Trimmers' Tools.....	275	Wagon Eveners.....	309
Trimming Leather.....	253	Wagon Gearing.....	288
Trimming, Stick Seat.....	269	Wagon Gears.....	299
Troughs, Wheel Oiling.....	41	Wagon Jacks.....	379-380, 424
Truck Felloes.....	291	Wagon Neckyokes.....	307
Truck Poles.....	287	Wagon Paints.....	278-279
Tubular Axles.....	195-196	Wagon Singletrees.....	306
Tubular Bow Sockets.....	246	Wagon Stakes.....	201
Tubular Rivets.....	250	Wagon Sunshades.....	272
Tufts.....	252	Wagonette Shafts.....	312
Tufting Buttons.....	252	Warmers, Foot.....	398
Tufting Nails.....	252	Warner Wheels.....	295-296
Tufting Needles.....	275	Warren's Tuyere Irons.....	152
Tufting Twine.....	256	Washer Cutters.....	217

	PAGE		PAGE
Washers.....	53, 246-247	White and Red Lead.....	278
Axle.....	218	White's Wagon Brakes.....	201
Water Tuyere Irons.....	153	Whitewood.....	288
Watson Forges.....	163	Whitewood Plugs.....	318
Wear Irons.....	200, 228	Will's Axle Gauges.....	139
Webb, Cushion.....	255	Window Frame Fasteners.....	274
Webbing.....	256	Window Lifter Tassels.....	255
Wedges.....	41, 102, 104, 318	Window Springs.....	274
Weights of Springs.....	208 to 211	Winner Shears.....	192
Weights, Shipping.....	417 to 419	Wire Nails.....	21 to 24
Tables of.....	407 to 419	Wire Spikes.....	22
Welders, Landside.....	39	Wood Brace Drills.....	113
Welding Axles.....	214, 217	Wood Choppers' Mauls.....	41
Welding Compounds.....	34	Wood Choppers' Wedges.....	41
Welding Dies, Toe Calk.....	32	Wood Fillers.....	279
Western Chief Blowers.....	155-156	Wood Gearing.....	341 to 353
Western Chief Drills.....	177, 180-181	Wood Hub Wheels.....	297, 305
Western Chief Forges.....	159 to 163	Wood Rasps.....	78
Western Chief Screw Plates.....	125	Wood Screws.....	63
West's Top Dressing.....	272	Wood Workers' Vises.....	143 to 149
Wheel Holding Attachments.....	177-178	Wool Dusters.....	273
Wheel Oiling Tanks.....	41	Wool Dyed Cloth.....	254
Wheels.....	295 to 299, 305	Wound Bobbins.....	256
Emery.....	71-72	Wrench and Clamp, Bolt.....	80
Polishing.....	70	Wrench Attachments.....	81
Ready Tired.....	299	Wrenches.....	81 to 83
Tiring.....	299	Brace.....	80
Wood Hub.....	305	Engineers'.....	82
Wheelbarrows.....	106 to 110	Rim.....	80
Wheeled Road Scrapers.....	106	Tap.....	124
Whiffletrees, see Singletrees.		Tire Bolters and.....	80
Whiffletree Bolts, Hooks, Plates, see Singletree.		Wagon.....	198
Whip Cord Back Rubber.....	253	Wrt Iron Jack Screws.....	67
Whip Cords, Coverts, etc.....	254	Wrought Iron Punch and Shears.....	186
Whip Holders.....	265, 397		
Whip Sockets.....	265, 397		
Whip Socket Fasteners.....	265, 397		
Whistles and Tubes.....	274		

Y

Yokes or Ties.....	225, 234
Brace End.....	225
Clip King Bolt.....	225
Yokes, Brace.....	225-226, 395
Clip.....	396

DEPARTMENTS

	PAGES
Iron and Steel.....	1 to 25
Heavy Hardware.....	27 to 69
Tools and Machines	70 to 192
Wagon and Carriage Hardware..	194 to 243
Trimmings and Mountings.....	245 to 275
Paints, Varnishes, Etc.....	276 to 284
Wood Material.....	286 to 380
Sleigh Material.....	381 to 406

MANUFACTURERS

FINE BODIES and SEATS

WAGON STOCK, ETC.

FACTORY - - - - - ELKHART, INDIANA

IRON AND STEEL

The Standard Classifications

For Iron and Steel are on pages immediately following this.

TO OBTAIN NET PRICE FOR ANY EXTRA SIZE

Add the extra for size as per classification to base price.

AMERICAN BAR IRON.	Base rate,	c.	per lb.
AMERICAN BAR IRON, Refined	"	c.	"
NORWAY AND SWEDES IRON.	"	c.	"
NORWAY IRON, Re-Rolled to shapes including Ovals Half Ovals and Half Rounds.....	All sizes,	c.	
NORWAY IRON NAIL RODS. . .	"	c.	"
HORSE SHOE IRON, best brands.	"	c.	"
SOFT STEEL BARS, AND BANDS No. 12 gauge to 3-16-inch thick, Standard Steel Classifi- cation	Base rate,	c.	"
SOFT STEEL HOOPS, $\frac{3}{8}$ -inch to 8 inches wide by No. 13 to 23 gauge, Pittsburg Steel Hoop Classification	"	c.	"
STEEL ANGLES, $1\frac{1}{2}$ x 3-16-inch and larger.....	"	c.	"
STEEL CHANNELS, $1\frac{1}{2}$ x 3-16- inch and larger	"	c.	"
STEEL TEES, $1\frac{1}{2}$ x 3-16-inch and larger	"	c.	"
ASSORTED SMALL SIZES IRON AND SOFT STEEL, weighed and bundled together.....	c.		"

We solicit enquiries for STRUCTURAL MATERIAL, including I BEAMS and CHANNELS, ANGLES and TEES.

IRON CLASSIFICATION

ADOPTED DECEMBER 3, 1895.

ROUNDS AND SQUARES.

1	to $1\frac{7}{8}$	.....	Base.
2	to $2\frac{7}{8}$	.....	20c per 100 lb. extra
3	to $3\frac{1}{2}$	.....	50c " " "
$3\frac{3}{8}$	to 4	.....	80c " " "
$4\frac{1}{8}$	to $4\frac{1}{2}$	.....	\$1 00 " " "
$4\frac{3}{8}$	to 5	.....	1 30 " " "
$5\frac{1}{8}$	to 6	.....	1 80 " " "
$6\frac{1}{8}$	to $6\frac{1}{2}$	.....	2 20 " " "
$6\frac{5}{8}$	to $7\frac{1}{4}$	.....	2 50 " " "
$\frac{3}{4}$	to $\frac{7}{8}$	.....	10c " " "
$\frac{5}{8}$	to $1\frac{1}{8}$	.....	20c " " "
$\frac{1}{2}$	to $1\frac{9}{16}$	.....	30c " " "
$\frac{7}{16}$	to $1\frac{15}{32}$	.....	40c " " "
$\frac{3}{8}$	to $1\frac{33}{32}$	.....	50c " " "
$\frac{1}{4}$	to $1\frac{11}{8}$	.....	70c " " "
$\frac{1}{4}$	to $1\frac{9}{8}$	.....	90c " " "
$\frac{7}{32}$	.....	.....	\$1 40 " " "
$\frac{8}{16}$	.....	.....	2 50 " " "

FLATS.

$1\frac{1}{2}$	to 4	x $\frac{3}{8}$	to 1	.....	Base.
$4\frac{1}{4}$	to 6	x $\frac{3}{8}$	to 1	.....	10c per 100 lb. extra.
$4\frac{1}{4}$	to 6	x $1\frac{1}{16}$	to $1\frac{1}{2}$	.....	40c " " "
$6\frac{1}{4}$	to 8	x $\frac{3}{8}$	to 1	.....	60c " " "
$6\frac{1}{4}$	to 8	x $1\frac{1}{16}$	to $1\frac{1}{2}$	.....	60c " " "
$8\frac{1}{4}$	to 10	x $\frac{3}{8}$	to 1	.....	80c " " "
$1\frac{3}{8}$	to 4	x $1\frac{1}{8}$	to $1\frac{1}{2}$	.....	30c " " "
2	to 4	x $1\frac{5}{8}$	to 2	.....	50c " " "
$4\frac{1}{4}$	to 6	x $1\frac{5}{8}$	to 2	.....	60c " " "
$6\frac{1}{4}$	to 8	x $1\frac{5}{8}$	to 2	.....	80c " " "
$8\frac{1}{4}$	to 10	x $1\frac{1}{16}$	to $1\frac{1}{2}$	.....	90c " " "
$8\frac{1}{4}$	to 10	x $1\frac{5}{8}$	to 2	.....	\$1 00 " " "
2	to 4	x $2\frac{1}{8}$	to 3	.....	60c " " "
$4\frac{1}{4}$	to 6	x $2\frac{1}{8}$	to 3	.....	80c " " "
$6\frac{1}{4}$	to 8	x $2\frac{1}{8}$	to 3	.....	\$1 00 " " "
$1\frac{1}{8}$	to $1\frac{3}{8}$	x $\frac{3}{8}$	to 1	.....	10c " " "
1	to $1\frac{1}{16}$	x $\frac{3}{8}$	to $\frac{7}{8}$	.....	20c " " "
$\frac{3}{4}$	to $1\frac{15}{16}$	x $\frac{3}{8}$	to $\frac{3}{4}$	.....	40c " " "
$\frac{5}{8}$	to $1\frac{11}{16}$	x $\frac{3}{8}$	to $\frac{5}{8}$	.....	50c " " "
$\frac{1}{2}$	to $1\frac{9}{16}$	x $\frac{3}{8}$	to $\frac{1}{2}$	.....	90c " " "

ALL PRICES SUBJECT TO DISCOUNT.

IRON CLASSIFICATION.—(CONTINUED).**HEAVY BAND IRON.**

8¼ to 10	x ¼ to ⅝	.....	70c	per 100 lb. extra.
7 to 8	x ¼ to ⅝	.....	70c	“ “ “
6¼ to 6¾	x ¼ to ⅝	.....	50c	“ “ “
4¼ to 6	x ¼ to ⅝	.....	30c	“ “ “
1½ to 4	x ¼ to ⅝	.....	20c	“ “ “
1 to 1⅜	x ¼ to ⅝	.....	30c	“ “ “
¾ to 1⅝	x ¼ to ⅝	.....	50c	“ “ “
⅝ to 1⅞	x ¼ to ⅝	.....	80c	“ “ “
½ to ⅞	x ¼ to ⅝	.....	\$1 00	“ “ “
⅜ to ⅞	x ¼ to ⅝	.....	1 50	“ “ “

Heavy bands, $\frac{7}{32}$ in. thick, 10c per 100 lbs. higher than ¼ to $\frac{5}{16}$ thick. Bevel edge shaft iron 10c higher than same size of heavy bands.

LIGHT BANDS.

7 to 8	x No. 9 to ⅜	.....	90c	per 100 lb. extra.
7 to 8	x Nos. 10, 11, 12..	\$1 00	“	“ “
6¼ to 6¾	x No. 9 to ⅜	.....	70c	“ “ “
6¼ to 6¾	x Nos. 10, 11, 12..	80c	“	“ “
4¼ to 6	x No. 9 to ⅜	.....	50c	“ “ “
4¼ to 6	x Nos. 10, 11, 12..	60c	“	“ “
1¼ to 4	x No. 9 to ⅜	.....	40c	“ “ “
1¼ to 4	x Nos. 10, 11, 12..	50c	“	“ “
1 to 1⅜	x No. 9 to ⅜	.....	50c	“ “ “
1 to 1⅜	x Nos. 10, 11, 12..	60c	“	“ “
⅜ to ⅞	x No. 9 to ⅜	.....	60c	“ “ “
⅜ to ⅞	x Nos. 10, 11, 12..	70c	“	“ “
⅜ to ¾	x No. 9 to ⅜	.....	80c	“ “ “
⅜ to ¾	x Nos. 10, 11, 12..	90c	“	“ “
⅞ to ⅞	x No. 9 to ⅜	.....	1 00	“ “ “
⅞ to ⅞	x Nos. 10, 11, 12..	1 10	“	“ “
⅞ to ⅞	x No. 9 to ⅜	.....	1 30	“ “ “
⅞ to ⅞	x Nos. 10, 11, 12..	1 40	“	“ “
¾ x No. 9 to ⅜	.....	1 50	“	“ “
¾ x Nos. 10, 11, 12..	.....	1 60	“	“ “

ALL PRICES SUBJECT TO DISCOUNT.

IRON CLASSIFICATION—(CONTINUED).**BEVEL EDGE BOX IRON.**

Same as light bands of same sizes.

BEADED BAND IRON.

1¼ to 2 in.....70c per 100 lbs. extra.

SAND BAND IRON.

10c per 100 lbs. over price of same sizes of light bands.

OVAL IRON.

⅝ to 1½	.....	40c	per 100 lbs. extra
¾ to 1 ³ / ₁₆	.....	50c	“ “ “
⅝ to 1 ¹ / ₁₆	.....	60c	“ “ “
½ to 1 ⁹ / ₁₆	.....	80c	“ “ “
⅜ to 1 ⁷ / ₁₆	.....	\$1 10	“ “ “
½ to 1 ⁹ / ₁₆ x 3 ³ / ₁₆	.....	1 00	“ “ “
⅝ to 1 ¹ / ₁₆ x ⅞	.....	1 20	“ “ “

HALF OVAL IRON.

2¼ to 3	.....	60c	per 100 lbs. extra.
7/8 to 2	.....	50c	“ “ “
¾ to 1 ¹³ / ₁₆	.....	70c	“ “ “
⅝ to 1 ¹¹ / ₁₆	.....	90c	“ “ “
½ to 1 ⁹ / ₁₆	.....	\$1 20	“ “ “
⅜ to 1 ⁷ / ₁₆	.....	2 50	“ “ “
5 ⁵ / ₁₆	.....	3 50	“ “ “
1¼	.....	4 50	“ “ “

Half oval, less than ¼ their width in thickness, extra price.

HALF ROUND IRON.

2¼ to 3	.....	60c	per 100 lbs. extra.
7/8 to 2	.....	50c	“ “ “
¾ to 1 ¹³ / ₁₆	.....	70c	“ “ “
⅝ to 1 ¹¹ / ₁₆	.....	90c	“ “ “
½ to 1 ⁹ / ₁₆	.....	\$1 20	“ “ “
⅜ to 1 ⁷ / ₁₆	.....	2 50	“ “ “
5 ⁵ / ₁₆	.....	3 50	“ “ “
1¼	.....	4 50	“ “ “

HORSE SHOE IRON.

All sizes.....\$1 00 per 100 lbs. extra

CUTTING BAR IRON

to specified length, 2 feet and

over.....10c per 100 lbs. extra

ALL PRICES SUBJECT TO DISCOUNT.

STANDARD STEEL CLASSIFICATION.

ADOPTED NOVEMBER 10, 1899.

ROUNDS AND SQUARES.

$\frac{1}{4}$ to 3 inches	Base.
$\frac{3}{8}$ to $\frac{1}{2}$ "	10c per 100 lb. extra.
$\frac{1}{2}$ to $\frac{9}{16}$ "	20c " " "
$\frac{7}{16}$ "	40c " " "
$\frac{3}{8}$ "	50c " " "
$\frac{5}{16}$ "	60c " " "
$\frac{1}{4}$ and $\frac{9}{32}$ "	70c " " "
$\frac{7}{32}$ "	\$1 00 " " "
$\frac{3}{16}$ "	2 00 " " "
$3\frac{1}{16}$ to $3\frac{1}{2}$ "	30c " " "
$3\frac{9}{16}$ to 4 "	50c " " "
$4\frac{1}{16}$ to $4\frac{1}{2}$ "	60c " " "
$4\frac{9}{16}$ to 5 "	80c " " "
$5\frac{1}{8}$ to $5\frac{1}{2}$ "	1 00 " " "
$5\frac{5}{8}$ to 6 "	1 50 " " "
$6\frac{1}{8}$ to $6\frac{1}{2}$ "	2 00 " " "
$6\frac{3}{8}$ to $7\frac{1}{4}$ "	2 50 " " "

For intermediate sizes, the next higher extra to be charged.

Bars up to 5 in. diameter over 24 ft. long, and bars larger than 5 in. diameter over 18 ft. long, subject to special prices.

Machine Straightening and Centering, 20c. extra.

FLAT BARS AND HEAVY BANDS.

1 to 6 x $\frac{3}{8}$ to 1	Base.
1 to 6 x $\frac{1}{4}$ and $\frac{5}{16}$. .	20c per 100 lb. extra.
$\frac{11}{16}$ to $\frac{15}{16}$ x $\frac{3}{8}$ to $\frac{3}{4}$	40c " " "
$\frac{11}{16}$ to $\frac{15}{16}$ x $\frac{1}{4}$ and $\frac{5}{16}$	50c " " "
$\frac{9}{16}$ and $\frac{5}{8}$ x $\frac{3}{8}$ to $\frac{1}{2}$	50c " " "
$\frac{9}{16}$ and $\frac{5}{8}$ x $\frac{1}{4}$ and $\frac{5}{16}$	70c " " "
$\frac{1}{2}$ x $\frac{3}{8}$ and $\frac{7}{16}$	90c " " "
$\frac{1}{2}$ x $\frac{1}{4}$ and $\frac{5}{16}$	\$1 10 " " "
$\frac{7}{16}$ x $\frac{3}{8}$	1 00 " " "
$\frac{7}{16}$ x $\frac{1}{4}$ and $\frac{5}{16}$	1 20 " " "
$\frac{3}{8}$ x $\frac{1}{4}$ and $\frac{5}{16}$	1 50 " " "
$1\frac{1}{8}$ to 6 x $1\frac{1}{16}$ to $1\frac{3}{16}$..	10c " " "
$1\frac{1}{8}$ to 6 x $1\frac{1}{4}$ to $1\frac{1}{2}$	20c " " "
$1\frac{3}{4}$ to 6 x $1\frac{5}{8}$ to $2\frac{3}{4}$	30c " " "
$3\frac{3}{8}$ to 6 x 3 to 4	40c " " "

For intermediate sizes, the next higher extra to be charged.

ALL PRICES SUBJECT TO DISCOUNT.

STEEL CLASSIFICATION. (CONTINUED.)**LIGHT BARS AND BANDS.**

Per 100 lbs. extra.

1½	to 6	in., Nos. 7, 8, 9 and $\frac{3}{16}$ in.	.....	\$0 40
1½	to 6	“ “ 10, 11, 12 and $\frac{1}{8}$ in.	.....	60
1	to $1\frac{7}{16}$	“ “ 7, 8, 9 and $\frac{3}{16}$ in.	.....	• 50
1	to $1\frac{7}{16}$	“ “ 10, 11, 12 and $\frac{1}{8}$ in.	.....	70
$\frac{13}{16}$	to $\frac{15}{16}$	“ “ 7, 8, 9 and $\frac{3}{16}$ in.	.....	• 70
$\frac{13}{16}$	to $\frac{15}{16}$	“ “ 10, 11, 12 and $\frac{1}{8}$ in.	...	80
$\frac{11}{16}$	and $\frac{3}{4}$	“ “ 7, 8, 9 and $\frac{3}{16}$ in.	.....	1 00
$\frac{11}{16}$	and $\frac{3}{4}$	“ “ 10, 11, 12 and $\frac{1}{8}$ in.	.....	1 20
$\frac{9}{16}$	and $\frac{5}{8}$	“ “ 7, 8, 9 and $\frac{3}{16}$ in.	.....	1 20
$\frac{9}{16}$	and $\frac{5}{8}$	“ “ 10, 11, 12 and $\frac{1}{8}$ in.	.....	1 30
	$\frac{1}{2}$	“ “ 7, 8, 9 and $\frac{3}{16}$ in.	.....	1 30
	$\frac{1}{2}$	“ “ 10, 11, 12 and $\frac{1}{8}$ in.	.....	1 50
	$\frac{7}{16}$	“ “ 7, 8, 9 and $\frac{3}{16}$ in.	.....	1 80
	$\frac{7}{16}$	“ “ 10, 11, 12 and $\frac{1}{8}$ in.	.....	2 10
	$\frac{3}{8}$	“ “ 7, 8, 9 and $\frac{3}{16}$ in.	.....	1 90
	$\frac{3}{8}$	“ “ 10, 11, 12 and $\frac{1}{8}$ in.	.....	2 40

For intermediate sizes, the next higher extra to be charged.

OVALS.

$\frac{7}{8}$	to $1\frac{1}{4}$	inches.....	40c	per 100 lbs. extra
$\frac{3}{4}$	to $\frac{13}{16}$	“	50c	“ “ “
$\frac{5}{8}$	to $\frac{11}{16}$	“	60c	“ “ “
$\frac{1}{2}$	to $\frac{9}{16}$	“	80c	“ “ “
$\frac{3}{8}$	to $\frac{7}{16}$	“	\$1 00	“ “ “

For intermediate sizes, the next higher extra to be charged.

HALF OVALS AND HALF ROUNDS.

$\frac{7}{8}$	to 2	inches.....	50c	per 100 lbs. extra
$\frac{3}{4}$	to $\frac{13}{16}$	“	60c	“ “ “
$\frac{5}{8}$	to $\frac{11}{16}$	“	70c	“ “ “
$\frac{1}{2}$	to $\frac{9}{16}$	“	90c	“ “ “
$\frac{3}{8}$	to $\frac{7}{16}$	“	\$1 10	“ “ “

For intermediate sizes, the next higher extra to be charged.

ALL PRICES SUBJECT TO DISCOUNT.

STEEL CLASSIFICATION—Continued.**ROUND EDGE STEEL TIRE.****FINISHED AND STRAIGHTENED.**

All sizes $\frac{3}{4}$ x $\frac{3}{16}$ in. and larger. Base

Extras on sizes less than $\frac{3}{4}$ in. wide and less than $\frac{3}{16}$ in. thick as per Bar Steel Classification.

HOT ROLLED SHAFTING OR MACHINERY STEEL.

Per 100 lbs.

Open Hearth, smooth finish, $\frac{3}{4}$ to 3 in. Base, \$

Bessemer, iron finish, $\frac{3}{4}$ to 3 in “ \$

See classification on page 5.

Extras for Hot Sawing, Shearing or Machine Cutting Above.

Per 100 lbs.

Hot Sawing or Shearing, 24 inch and longer bars. 10c

Hot Sawing or Shearing, 12 to 24 inches. 20c

Hot Shearing, 6 to 12 inches. 30c

Machine Cutting, specified lengths, above 24 inches. 20c

Machine Cutting, specified lengths, 12 to 24 inches. 40c

Machine Cutting, to specified lengths, less than 12 inches, according to contract, but not less than 60c per 100 lbs. on each size.

No charge for shear cutting to multiple lengths of 12 inches and under.

All sizes not enumerated subject to special arrangement.

ALL PRICES SUBJECT TO DISCOUNT.

PITTSBURGH STEEL HOOP CLASSIFICATION.

SOFT STEEL HOOPS.

$1\frac{7}{16}$ to 3,	Nos. 13, 14, 15, 16..	10c per 100lbs.extra.		
$1\frac{7}{16}$ to 2,	" 17, 18 and 19..	15c	"	"
$1\frac{7}{16}$ to 2,	" 20.....	20c	"	"
$1\frac{7}{16}$ to 2,	" 21.....	25c	"	"
$1\frac{7}{16}$ to $1\frac{3}{4}$,	" 22.....	35c	"	"
$1\frac{7}{8}$ to $1\frac{3}{8}$,	" 13, 14 and 15..	15c	"	"
$1\frac{7}{8}$ to $1\frac{3}{8}$,	" 16, 17 and 18..	20c	"	"
$1\frac{7}{8}$ to $1\frac{3}{8}$,	" 19 and 20....	25c	"	"
$1\frac{7}{8}$ to $1\frac{3}{8}$,	" 21.....	30c	"	"
$1\frac{7}{8}$ to $1\frac{3}{8}$,	" 22.....	40c	"	"
$1\frac{5}{16}$ and 1,	" 13, 14 and 15..	20c	"	"
$1\frac{5}{16}$ and 1,	" 16, 17 and 18..	25c	"	"
$1\frac{5}{16}$ and 1,	" 19 and 20....	30c	"	"
$1\frac{5}{16}$ and 1,	" 21.....	35c	"	"
$1\frac{5}{16}$ and 1,	" 22.....	45c	"	"
$\frac{7}{8}$ in.	" 13, 14 and 15..	30c	"	"
$\frac{7}{8}$ "	" 16, 17 and 18..	35c	"	"
$\frac{7}{8}$ "	" 19 and 20....	40c	"	"
$\frac{7}{8}$ "	" 21.....	45c	"	"
$\frac{7}{8}$ "	" 22.....	55c	"	"
$\frac{3}{4}$ and $1\frac{13}{16}$,	" 13, 14 and 15..	40c	"	"
$\frac{3}{4}$ and $1\frac{13}{16}$,	" 16, 17 and 18..	45c	"	"
$\frac{3}{4}$ and $1\frac{13}{16}$,	" 19 and 20....	50c	"	"
$\frac{3}{4}$ and $1\frac{13}{16}$,	" 21.....	55c	"	"
$\frac{3}{4}$ and $1\frac{13}{16}$,	" 22.....	60c	"	"
$\frac{3}{4}$ and $1\frac{13}{16}$,	" 23.....	70c	"	"
$1\frac{11}{16}$ in.	" 13, 14 and 15..	45c	"	"
$1\frac{11}{16}$ "	" 16, 17 and 18..	50c	"	"
$1\frac{11}{16}$ "	" 19 and 20....	60c	"	"
$1\frac{11}{16}$ "	" 21.....	70c	"	"
$1\frac{11}{16}$ "	" 22.....	80c	"	"
$1\frac{11}{16}$ "	" 23.....	90c	"	"
$\frac{5}{8}$ "	" 13, 14 and 15..	50c	"	"
$\frac{5}{8}$ "	" 16, 17 and 18..	55c	"	"
$\frac{5}{8}$ "	" 19 and 20....	65c	"	"
$\frac{5}{8}$ "	" 21.....	75c	"	"
$\frac{5}{8}$ "	" 22.....	85c	"	"
$\frac{9}{16}$ "	" 13, 14 and 15..	55c	"	"
$\frac{9}{16}$ "	" 16, 17 and 18..	60c	"	"
$\frac{9}{16}$ "	" 19 and 20....	70c	"	"
$\frac{9}{16}$ "	" 21.....	80c	"	"
$\frac{9}{16}$ "	" 22.....	90c	"	"

ALL PRICES SUBJECT TO DISCOUNT.

SOFT STEEL HOOPS—Continued.

$\frac{9}{16}$ in.	Nos., 23.....	\$1.00	per 100 lbs. extra.		
$\frac{1}{2}$ "	" 13, 14 and 15	65c	"	"	"
$\frac{1}{2}$ "	" 16, 17 and 18	70c	"	"	"
$\frac{1}{2}$ "	" 19 and 20...	80c	"	"	"
$\frac{1}{2}$ "	" 21.....	90c	"	"	"
$\frac{1}{2}$ "	" 22.....	1.00	"	"	"
$\frac{1}{2}$ "	" 23.....	1.10	"	"	"
$\frac{7}{16}$ "	" 13, 14 and 15	90c	"	"	"
$\frac{7}{16}$ "	" 16, 17 and 18	1.00	"	"	"
$\frac{7}{16}$ "	" 19 and 20...	1.10	"	"	"
$\frac{3}{8}$ "	" 13, 14 and 15	1.10	"	"	"
$\frac{3}{8}$ "	" 16, 17 and 18	1.20	"	"	"
$\frac{3}{8}$ "	" 19 and 20...	1.30	"	"	"

WIDE SIZES HOOPS.

$2\frac{1}{8}$ to 3 in.	No. 17.....	20c	per 100 lbs. extra.		
"	" 18.....	25c	"	"	"
"	" 19.....	30c	"	"	"
"	" 20.....	35c	"	"	"
$3\frac{1}{8}$ to 4 in.	" 13.....	10c	"	"	"
"	" 14.....	15c	"	"	"
"	" 15.....	20c	"	"	"
"	" 16.....	25c	"	"	"
"	" 17.....	35c	"	"	"
"	" 18.....	50c	"	"	"
$4\frac{1}{8}$ to 5 in.	" 13.....	15c	"	"	"
"	" 14.....	20c	"	"	"
"	" 15.....				
"	" 16.....				
$5\frac{1}{4}$ to 7 in.	" 13.....	20c	"	"	"
"	" 14.....	25c	"	"	"
"	" 15.....				
"	" 16.....				
$7\frac{1}{2}$ to 8 in.	$\frac{1}{4}$ and $\frac{5}{16}$...	10c	"	"	"
"	No. 9 to $\frac{3}{16}$...	15c	"	"	"
"	" 10, 11, 12...	20c	"	"	"
"	" 13.....	25c	"	"	"
"	" 14.....	35c	"	"	"

For each gauge lighter than indicated on list, extra 10c
per 100 lbs.

STONE AND MARBLE SAW BLADES.

Carefully cut to length and straightened. **Extra.**

$1\frac{1}{2}$ in. to 7 in., Nos. 7, 8, 9, or $\frac{3}{16}$ in. 10c per 100 lb.

$1\frac{1}{2}$ in. to 7 in., Nos. 10, 11, 12 or $\frac{1}{8}$ in. 15c "

ALL PRICES SUBJECT TO DISCOUNT.

TOOL STEEL.**Best Quality—**

Black Diamond.....	Base sizes, ... c per lb.
Black Diamond "Silver".....	" c "
Black Diamond "Extra Special" ..	" c "
Black Diamond "Self-Hardening" , "	 c "

Cut to special lengths, extra, according to cost of work.

For prices of sizes which advance above Base, add extras quoted in the following classification.

TOOL STEEL CLASSIFICATION.**Round, Square and Octagon.**

Extra per lb.	Extra per lb.
$\frac{3}{8}$ to 2 in.....Base.	9-16 to $\frac{1}{2}$ in..... 0.5c.
$2\frac{1}{8}$ to 3 in.....1.0c.	7-16 to $\frac{3}{8}$ in..... 1.0c.
$2\frac{1}{2}$ to 4 in.....1.5c.	5-16 and 11-32 in..... 2.0c.
$4\frac{1}{2}$ to 5 in..... 2.0c.	$\frac{1}{4}$ and 9-32 in..... 3.0c.
$5\frac{1}{2}$ to 6 in.....2.5c.	3-16 in..... 5.0c.
6 to 7 in..... 3.0c.	5-32 in..... 10.0c.
$7\frac{1}{2}$ to 8 in.....3.5c.	$\frac{1}{8}$ in.....18.0c.

Flat.

$\frac{3}{8}$ to 2 in. thick by 9-16 to 2 in. wide.....Base	
Extra per lb.	Extra per lb.
$\frac{1}{8}$ by 3-16.....20.0c.	5-16 by $\frac{3}{8}$ to $\frac{1}{2}$.....1.5c.
$\frac{1}{8}$ by $\frac{1}{4}$.....15.0c.	5-16 by 11-16 to 8.....1.0c.
$\frac{1}{8}$ by 5-16..... 8.0c.	$\frac{3}{8}$ by 7-16 to 8.....1.0c.
$\frac{1}{8}$ by $\frac{3}{8}$ 4.0c.	7-16 by $\frac{1}{2}$ to 8.....1.0c.
$\frac{1}{8}$ by 7-16 to $\frac{1}{2}$ 3.0c.	$\frac{1}{2}$ by 9-16 to 8.....1.0c.
$\frac{1}{8}$ by 9-16 to 7..... 2.0c.	9-16 by $2\frac{1}{8}$ to 8.....1.0c.
$\frac{1}{8}$ by $7\frac{1}{2}$ to 8..... 3.0c.	9-16 to 2 in. by $\frac{3}{8}$ to 2 in.0.0c.
3-16 by $\frac{1}{4}$ 5.0c.	$\frac{5}{8}$ to 2 in. by $2\frac{1}{8}$ to 7 in.1.0c.
3-16 by 5-16..... 4.0c.	$\frac{3}{8}$ to $1\frac{1}{4}$ by $7\frac{1}{8}$ to 8.....1.0c.
3-16 by $\frac{3}{8}$ 3.0c.	$1\frac{1}{8}$ to 2 by $7\frac{1}{8}$ to 8.....1.5c.
3-16 by 7-16 to $\frac{5}{8}$ 2.0c.	$2\frac{1}{8}$ to 3 by $2\frac{1}{8}$ to 5.....1.0c.
3-16 by 11-16 to 2..... 1.5c.	$2\frac{1}{8}$ to 3 by $5\frac{1}{8}$ to 8.....1.5c.
3-16 by $2\frac{1}{2}$ to 7..... 1.0c.	$3\frac{1}{8}$ to 4 by $3\frac{1}{8}$ to 6.....1.5c.
3-16 by $7\frac{1}{2}$ to 8..... 2.0c.	$3\frac{1}{8}$ to 4 by $6\frac{1}{8}$ to 8.....2.0c.
$\frac{1}{4}$ by 5-16 to $\frac{3}{8}$ 2.0c.	$4\frac{1}{8}$ to 5 by $4\frac{1}{8}$ to 7.....2.0c.
$\frac{1}{4}$ by 7-16 to $\frac{5}{8}$ 1.5c.	$4\frac{1}{8}$ to 5 by $7\frac{1}{8}$ to 8.....2.5c.
$\frac{1}{4}$ by 11-16 to 2..... 1.5c.	$5\frac{1}{8}$ to 6 by $5\frac{1}{8}$ to 8.....2.5c.
$\frac{1}{4}$ by $2\frac{1}{2}$ to 7..... 1.0c.	$6\frac{1}{8}$ to 7 by $6\frac{1}{8}$ to 7.....3.0c.
$\frac{1}{4}$ by $7\frac{1}{2}$ to 8..... 2.0c.	$6\frac{1}{8}$ to 8 by $7\frac{1}{8}$ to 8.....3.5c.

Cutting to multiples or specified lengths, $\frac{1}{2}$ cent per lb. for anything over 24 inches long.

Lengths 24 inches or less, according to special contract, but not less than $\frac{1}{2}$ cent per lb.

All unenumerated sizes will be charged at price of next larger dimension in list.

ALL PRICES SUBJECT TO DISCOUNT.

TOE CALK STEEL.

$\frac{1}{2} \times \frac{3}{8}$ and over	Base.
$\frac{3}{16} \times \frac{1}{4}$ to $\frac{1}{2}$	\$1 00 per 100 lb. extra.
$\frac{3}{16} \times \frac{5}{8}$ to 1	50 " " "
$\frac{1}{4} \times \frac{5}{16}$ to $\frac{3}{8}$	75 " " "
$\frac{1}{4} \times \frac{7}{16}$ to 1	37 $\frac{1}{2}$ " " "
$\frac{5}{16} \times \frac{3}{8}$ to $\frac{7}{16}$	37 $\frac{1}{2}$ " " "
$\frac{5}{16} \times \frac{1}{2}$ to 1	25 " " "
$\frac{3}{8} \times \frac{7}{16}$	37 $\frac{1}{2}$ " " "
$\frac{3}{8}$ square	37 $\frac{1}{2}$ " " "
$\frac{5}{16}$ "	50 " " "
$\frac{1}{4}$ "	1 00 " " "

Put up in bundles of 100 pounds each.

ROUND SPRING STEEL.

$\frac{3}{8}$ to $1\frac{1}{2}$ in.	Base.
$\frac{1}{2}$ to $\frac{9}{16}$	20c per 100 lb. extra.
$\frac{3}{8}$ to $\frac{7}{16}$	50c " " "
$\frac{5}{16}$ in.	\$1 00 " " "
$\frac{1}{4}$ in.	1 50 " " "

Spirals cut to lengths, 10c per 100 pounds extra.

Spirals cut to lengths and tapered, 30c per 100 pounds extra.

FLAT SPRING STEEL.

$1\frac{1}{4}$ to 6 x No. 4 to $\frac{1}{2}$	Base.
1 and $1\frac{1}{8}$ x No. 1 to 4 ..	20c per 100 lb. extra.
1 to 3 x No. 5 to 7 ..	50c " " "
$\frac{3}{4}$ and $\frac{15}{16}$ x No. 1 to 7 ..	50c " " "
$\frac{3}{8}$ to $\frac{11}{16}$ x No. 1 to 7 ..	\$1 00 " " "
$\frac{3}{4}$ to 3 x No. 8 to 10 ..	1 00 " " "
$\frac{3}{4}$ to 3 x No. 11 to 16 ..	1 50 " " "
$\frac{3}{4}$ to 3 x No. 17 to 20 ..	2 20 " " "
$\frac{3}{8}$ to $\frac{5}{8}$ x No. 10 to 16 ..	4 00 " " "
$\frac{3}{8}$ to $\frac{5}{8}$ x No. 17 to 20 ..	5 00 " " "
$\frac{3}{8}$ to $\frac{5}{8}$ x No. 21 to 24 ..	6 00 " " "

Cut to length, 24 inches and over, 10c per 100 pounds extra, and under, by special contract.

PLOW STEEL.

Open Hearth, to 6 in. wide, \$....	per 100 lb.
" " over 6 in. wide,	" " "
Solid Cast, to 6 in. wide,	" " "
" " over 6 in. wide,	" " "
Crucible, all widths.	" " "
Soft Center, all widths.	" " "

Special shapes at special prices.

ALL PRICES SUBJECT TO DISCOUNT.

BEVELED EDGE WAGON BOX STEEL.

$\frac{7}{8}$	Nos. 11 and 12.....	} Extras same as on corresponding sizes of Steel Bands and Hoops on pages 6, 8 and 9 with 10c per 100 lbs. extra net for beveled edges.
$\frac{7}{8}$	" 13 and 14.....	
$\frac{13}{16}$	" 11 and 12.....	
$\frac{13}{16}$	" 13 and 14.....	
$\frac{3}{4}$	" 11 and 12.....	
$\frac{3}{4}$	" 13 and 14.....	
$\frac{5}{8}$	" 11 and 12.....	
$\frac{5}{8}$	" 13 and 14.....	
$\frac{1}{2}$	" 11 and 12.....	
$\frac{1}{2}$	" 13 and 14.....	

BEVELED EDGE SHAFT STEEL.

$1\frac{1}{2}$	$x\frac{5}{16}$ and $\frac{3}{8}$	} Extras same as on corresponding sizes of Steel Bars and Bands on pages 5 and 6 with 10c per 100 lbs. extra net for beveled edges.
1	to $1\frac{3}{8}x\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$ and $\frac{3}{8}$	
$\frac{7}{8}$	$x\frac{3}{16}$ and $\frac{1}{4}$	
$\frac{3}{4}$	$x\frac{3}{16}$ and $\frac{1}{4}$	
$\frac{5}{8}$	$x\frac{3}{16}$ and $\frac{1}{4}$	

LIGHT STEEL T RAIL.

8 lbs. to the yard	
12 " "	
16 " "	
20 " "	
25 " "	
30 " "	
35 " "	
40 " "	
Splice Joints for 12, 16, and 20 lb. Rail, each	
" " 25, and 30 lb. " "	
" " 35 and 40 lb. " "	
$3\frac{1}{2}x\frac{3}{8}$ and $\frac{1}{2}$ Spikes for 20, 25 and 30 lb. Rail.....	
$2\frac{1}{2}$ and $3x\frac{3}{8}$ Spikes for 12 and 16 lb. Rail.....	
$2\frac{1}{2}x\frac{5}{16}$ Spikes for 8 lb. Rail	

FLAT STEEL RAILS.**Punched and Countersunk.**

$1\frac{1}{2}$ to $2x\frac{1}{2}$ to $\frac{5}{8}$ inch.....
$1\frac{1}{2}x\frac{3}{8}$ and $\frac{7}{16}$ inch.....
$1\frac{1}{4}x\frac{3}{8}$, $\frac{7}{16}$ and $\frac{1}{2}$ inch.....
$1\frac{1}{4}$ and $1\frac{1}{2}x\frac{1}{4}$ inch.....

ALL PRICES SUBJECT TO DISCOUNT.

ANGLE STEEL.

1½ inch x ⅜ inch and larger.....	Base
1 " to 1¼x⅜ inch	
and heavier.....	\$0.05 per 100 lb. extra
⅞x⅜ inch.....	.10 " " "
¾x⅜ ".....	.15 " " "
Angles, ⅛ inch thick.....	.05 " " "
Cutting to exact length.....	.05 " " "

CHANNEL STEEL.

1½x⅜ inch and larger.....	Base
1¼x⅜ " " heavier....	\$0.05 per 100 lb. extra
1 to 1⅛x⅜ inch and heavier	.10 " "
⅝ inch thick.....	.05 " "
Cutting to exact length.....	.05 " "

T STEEL.

All sizes.....	c per lb.
----------------	-----------

SLEIGH SHOE STEEL.**Flat, Concave and Convex.**

The following sizes are made:

⅝x2, 2¼, 2½ and 3.	
¾x2, 2¼, 2½, 3, 3¼, 3½ and 4.	
⅞x3, 3¼, 3½ and 4.	
1½x3, 3¼, 3½ and 4.	
Flat.....	c per lb.
Concave and Convex.....	c per lb.

NET EXTRAS FOR CUTTING TO LENGTH,

On Iron and Steel, excepting Shafting and Machinery Steel.

2 feet to 5 feet.....	5c per 100 lbs.
Over 1 foot and Under 2 feet.....	10c " "
1 foot and Under.....	15c " "

NET DIFFERENTIALS.

On iron or steel bars or shapes shipped from mills in less quantities than 2,000 lbs. of any one size, whether in carload lots or otherwise.

Less than 2,000 pounds and not less than 1,000 pounds of a size.....	10c per 100 lbs.
Less than 1,000 pounds of a size....	30c " "

ALL PRICES SUBJECT TO DISCOUNT.

PLATE AND SHEET IRON AND STEEL.

	$\frac{1}{4}$ inch and heavier	c. per lb.
No. 8	3-16	c. "
" 10	.....	c. "
" 11 and 12	.....	c. "
" 13 and 14	.....	c. "
" 15 and 16	.....	c. "
" 17	.....	c. "
" 18 and 20	.....	c. "
" 22 and 24	.....	c. "
" 25 and 26	.....	c. "
" 27	.....	c. "
" 28	.....	c. "
" 29	.....	c. "
" 30	.....	c. "

Roofing. (Painted or galvanized ready to lay.)

Standard corrugated, per square	\$.....
" standing seam, " .....	.....

Prices quoted on every description of Roofing and Siding upon receipt of specifications.

Galvanizing.

We have special arrangements for galvanizing Round, Band and Hoop Iron or Steel and Angles at reasonable prices.

GALVANIZED SHEETS. *

Gauge Nos.	Weight sq. ft.	Per lb.	Gauge Nos.	Weight sq. ft.	Per lb.
10	92.5 oz.	12c.	21	24.5 oz.	13c.
11	82.5 oz.	12c.	22	22.5 oz.	14c.
12	72.5 oz.	12c.	23	20.5 oz.	14c.
13	62.5 oz.	12c.	24	18.5 oz.	14c.
14	52.5 oz.	12c.	25	16.5 oz.	15c.
15	47.5 oz.	12c.	26	14.5 oz.	15c.
16	42.5 oz.	12c.	27	13.5 oz.	16c.
17	38.5 oz.	13c.	28	12.5 oz.	17c.
18	34.5 oz.	13c.	29	11.5 oz.	19c.
19	30.5 oz.	13c.	30	10.5 oz.	21c.
20	26.5 oz.	13c.			

Galvanized Pump Rods.

$\frac{3}{8}$ and 7-16, 12, 14 and 16 ft. long.... c. per lb.

ALL PRICES SUBJECT TO DISCOUNT.

COLD ROLLED STEEL SHAFTING.

★

ROUNDS.

Diam- eter.	Weight per ft.	Price per Pound.	Diam- eter.	Weight per ft.	Price per Pound.	Diam- eter.	Weight per ft.	Price per Pound.
$\frac{3}{16}$	.095	10c.	$1\frac{1}{8}$	7.60	5c.	$3\frac{3}{4}$	27.16	$5\frac{1}{4}$ c.
$\frac{1}{4}$	.167	10c.	$1\frac{3}{4}$	8.16	5c.	$3\frac{1}{4}$	28.24	$5\frac{1}{4}$ c.
$\frac{5}{16}$	.259	$8\frac{1}{2}$ c.	$1\frac{1}{2}$	8.78	5c.	$3\frac{5}{8}$	29.40	$5\frac{1}{4}$ c.
$\frac{3}{8}$	.370	7c.	$1\frac{7}{8}$	9.39	5c.	$3\frac{3}{8}$	30.43	$5\frac{1}{4}$ c.
$\frac{7}{16}$	.510	7c.	$1\frac{5}{8}$	10.00	5c.	$3\frac{7}{8}$	31.50	$5\frac{1}{4}$ c.
$\frac{1}{2}$	.666	7c.	2	10.65	5c.	$3\frac{1}{2}$	32.64	$5\frac{1}{2}$ c.
$\frac{9}{16}$	.843	6c.	$2\frac{1}{8}$	11.15	5c.	$3\frac{5}{8}$	33.84	$5\frac{1}{2}$ c.
$\frac{5}{8}$	1.05	6c.	$2\frac{1}{4}$	12.07	5c.	$3\frac{3}{4}$	35.20	$5\frac{1}{2}$ c.
$\frac{11}{16}$	1.25	6c.	$2\frac{3}{8}$	12.79	5c.	$3\frac{1}{2}$	36.40	$5\frac{1}{2}$ c.
$\frac{3}{4}$	1.50	$5\frac{1}{2}$ c.	$2\frac{1}{2}$	13.49	5c.	$3\frac{3}{8}$	37.45	$5\frac{1}{2}$ c.
$\frac{7}{8}$	1.757	$5\frac{1}{2}$ c.	$2\frac{5}{8}$	14.00	5c.	$3\frac{7}{8}$	39.85	$5\frac{1}{2}$ c.
$1\frac{1}{16}$	2.03	$5\frac{1}{2}$ c.	$2\frac{3}{4}$	15.07	5c.	$3\frac{1}{4}$	41.04	$5\frac{1}{2}$ c.
$1\frac{1}{8}$	2.34	$5\frac{1}{2}$ c.	$2\frac{7}{8}$	15.83	5c.	4	42.50	6c.
1	2.64	$5\frac{1}{2}$ c.	$2\frac{1}{2}$	16.68	5c.	$4\frac{1}{4}$	48.26	6c.
$1\frac{1}{16}$	3.00	$5\frac{1}{2}$ c.	$2\frac{5}{8}$	17.55	5c.	$4\frac{3}{4}$	52.62	6c.
$1\frac{1}{8}$	3.33	$5\frac{1}{2}$ c.	$2\frac{3}{4}$	18.32	5c.	$4\frac{1}{2}$	54.11	$6\frac{1}{2}$ c.
$1\frac{5}{16}$	3.74	$5\frac{1}{2}$ c.	$2\frac{1}{4}$	19.31	5c.	$4\frac{3}{8}$	60.88	$6\frac{1}{2}$ c.
$1\frac{1}{4}$	4.16	$5\frac{1}{2}$ c.	$2\frac{1}{8}$	20.18	5c.	$4\frac{1}{8}$	65.50	$6\frac{1}{2}$ c.
$1\frac{3}{8}$	4.61	$5\frac{1}{2}$ c.	$2\frac{1}{4}$	21.15	5c.	5	67.50	7c.
$1\frac{5}{8}$	5.048	$5\frac{1}{2}$ c.	$2\frac{3}{8}$	22.09	5c.	$5\frac{1}{8}$	78.95	7c.
$1\frac{7}{8}$	5.50	$5\frac{1}{2}$ c.	$2\frac{1}{2}$	22.96	5c.	$5\frac{1}{2}$	80.77	$7\frac{1}{2}$ c.
$1\frac{1}{2}$	6.00	5c.	3	24.06	5c.	$5\frac{3}{8}$	94.14	$7\frac{1}{2}$ c.
$1\frac{9}{16}$	6.52	5c.	$3\frac{1}{8}$	24.58	$5\frac{1}{4}$ c.	6	96.14	8c.
$1\frac{5}{8}$	7.04	5c.	$3\frac{1}{4}$	26.09	$5\frac{1}{4}$ c.			

Prices quoted are for shafts 1 foot to 24 feet, inclusive.

Extras for cutting short and long lengths.For shafts 6 to $11\frac{1}{4}$ inches long, $\frac{1}{2}$ c. per lb. net extra.For shafts 3 to $5\frac{1}{4}$ inches long, 1c. per lb. net extra.

For shafts shorter than 3 inches special prices will be quoted.

For shafts over 24 feet long, and less than 30 feet, $\frac{1}{2}$ c. per lb. net extra.

For shafts 30 feet long, and less than 35 feet, 1c. per lb. net extra.

For shafts 35 feet long, and less than 40 feet, $1\frac{1}{2}$ c. per lb. net extra.

For shafts 40 feet long, and less than 45 feet, 2c. per lb. net extra.

For shafts 45 feet long and over, $2\frac{1}{2}$ c. per lb. net extra.Extra for pump and piston rods, $\frac{1}{2}$ c. net per lb

Boxing charged at cost.

Special and irregular shapes to order.

ALL PRICES SUBJECT TO DISCOUNT.

★ COLD ROLLED STEEL. SQUARES.

Size	Weight Per Foot.	Price Per Pound.	Size	Weight Per Foot.	Price Per Pound.
$\frac{1}{4}$	.211....	12 cts.	$1\frac{9}{16}$	8.26.....	8 cts.
$\frac{5}{16}$	.332....	12 cts.	$1\frac{7}{8}$	8.93....	8 cts.
$\frac{3}{8}$	.475....	12 cts.	$1\frac{11}{16}$	9.63....	8 cts.
$\frac{7}{16}$	.652....	12 cts.	$1\frac{3}{4}$	10.34.....	8 cts.
$\frac{1}{2}$	.845....	10 cts.	$1\frac{13}{16}$	11.11.....	8 cts.
$\frac{9}{16}$	1.08....	10 cts.	$1\frac{7}{8}$	11.88.....	8 cts.
$\frac{5}{8}$	1.32....	10 cts.	$1\frac{15}{16}$	12.70.....	8 cts.
$\frac{11}{16}$	1.61....	10 cts.	2....	13.52.....	8 cts.
$\frac{3}{4}$	1.90....	8 cts.	$2\frac{1}{16}$	14.39.....	8 cts.
$\frac{13}{16}$	2.25....	8 cts.	$2\frac{1}{8}$	15.26.....	8 cts.
$\frac{7}{8}$	2.59....	8 cts.	$2\frac{3}{16}$	16.18.....	8 cts.
$1\frac{1}{16}$	2.96....	8 cts.	$2\frac{1}{4}$	17.11.....	8 cts.
1....	3.38....	8 cts.	$2\frac{5}{16}$	18.09.....	8 cts.
$1\frac{1}{16}$	3.85....	8 cts.	$2\frac{3}{8}$	19.07.....	8 cts.
$1\frac{1}{8}$	4.28....	8 cts.	$2\frac{7}{16}$	20.09.....	8 cts.
$1\frac{3}{16}$	4.78....	8 cts.	$2\frac{1}{2}$	21.12.....	8 cts.
$1\frac{1}{4}$	5.28....	8 cts.	$2\frac{5}{8}$	23.59.....	8 cts.
$1\frac{5}{16}$	5.84....	8 cts.	$2\frac{3}{4}$	25.56.....	8 cts.
$1\frac{3}{8}$	6.39....	8 cts.	$2\frac{15}{16}$	29.18.....	8 cts.
$1\frac{7}{16}$	6.99....	8 cts.	3....	30.42.....	8 cts.
$1\frac{1}{2}$	7.60....	8 cts.			

FLATS.

Thickness.	Inches.	WIDTH, INCHES.										
		$\frac{5}{16}$ to	$\frac{9}{16}$ to	$\frac{3}{4}$ to	$1\frac{1}{16}$ to	$1\frac{1}{8}$ to	$1\frac{1}{4}$ to	$2\frac{1}{16}$ to	$2\frac{1}{8}$ to	$2\frac{5}{16}$ to	$2\frac{3}{4}$ to	3 to
$\frac{1}{4}$ and	$\frac{5}{16}$	14	14	10	10	8	8	..	..	..	..	..
$\frac{3}{8}$ and	$\frac{7}{16}$	14	14	10	10	8	8	..	..	..	..	..
$\frac{1}{2}$ and	$\frac{9}{16}$	..	10	8	8	8	8	8	8	8	8	..
$\frac{5}{8}$ and	$\frac{11}{16}$	..	10	8	8	8	8	8	8	8	8	..
$\frac{3}{4}$ to	$\frac{13}{16}$	..	..	8	8	8	8	8	8	8	8	..
1 to	$1\frac{1}{16}$	..	..	..	8	8	8	8	8	8	8	..
$1\frac{1}{2}$ to	$1\frac{1}{8}$	..	..	..	..	8	8	8	8	8	8	..
$1\frac{3}{4}$ to	$1\frac{1}{4}$	..	..	..	..	..	8	8	8	8	8	..
2 to	$2\frac{1}{16}$	..	..	..	..	..	..	8	8	8	8	..
$2\frac{1}{4}$ to	$2\frac{1}{8}$	..	..	..	..	..	..	..	8	8	8	..
$2\frac{1}{2}$ to	$2\frac{3}{8}$	..	..	..	..	..	..	..	..	8	8	..
$2\frac{3}{4}$ to	$2\frac{1}{2}$	..	..	..	..	..	..	..	..	..	8	..
.....		..	..	..	..	..	..	..	..	..	..	..

Price in Cts. Per Pound.

Extras for Cutting Lengths—Flats and Squares.

Prices quoted are for lengths 2 feet to 24 feet, inclusive.
For lengths $11\frac{1}{16}$ in. to $23\frac{3}{4}$ in. long, $\frac{1}{2}$ c per lb., net extra.

" " 6 " to $11\frac{1}{4}$ " " 1c " " " "

" " 3 " to $5\frac{1}{4}$ " " 2c " " " "

" " Shorter than 3 in. special prices will be quoted.

ALL PRICES SUBJECT TO DISCOUNT.

COLD ROLLED STEEL.**KEY-SEATING LIST.**

Key-Seating and Other Extra Work on Finished Shafting.

DIAMETER OF SHAFT.	Full Length, Per Foot.	For Couplings Milled Ends, Per End.	Middle Splines.		Extra for Each Drilled End.	Extra for Each Squared End.
			First Foot and Over, Milled Ends.	Second Foot and Over, Per Foot.		
1 " to 1½"	\$0.16	\$0.24	\$0.50	\$0.16	\$0.20	\$0.30
1⅜ to 1¾	.20	.30	.60	.20	.30	.40
1⅞ to 1¾	.24	.40	.70	.24	.40	.50
1⅞ to 2½	.30	.50	.80	.30	.50	.60
2⅞ to 2¾	.40	.60	.90	.40	.60	.70
2⅞ to 3¾	.50	.80	1.10	.50	.70	.80
3⅞ to 3¾	.60	1.00	1.30	.60	.80	1.00
3⅞ to 4¼	.70	1.20	1.50	.70	.90	1.20
4⅞ to 4¾	.90	1.40	1.70	.90	1.00	1.30
4⅞ to 5¼	1.20	1.70	2.20	1.20	1.10	1.50
5⅞ to 5¾	1.50	2.00	2.50	1.50	1.30	1.70
5⅞ to 6	2.00	2.50	3.00	2.00	1.50	2.00

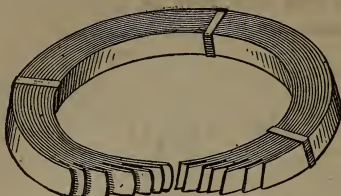
Price List for Centering Finished Shafting.

SIZES.	6" to 12" Long. c. per Pound.	12½" to 24" Long. c. per Pound.	24½" and Longer, c. per Pound.
½" to ¾"	2½	1½	1
⅞ to 1¼	1½	1	¾
1⅞ to 2¼	1	¾	½
2⅞ to 4	¾	½	⅓
4⅞ to 6	½	⅓	⅒

ALL PRICES SUBJECT TO DISCOUNT.

CUT KEG AND BARREL HOOPS.

Cut and rounded.

**Eighth Barrel.**

Head, 1½ in., No. 15, cut 36 inches long.....
 Bilge, 1¼ in., " 15, " 42 " "

Four-Hoop Quarter Barrel or Keg.

Head, 2 in., No. 14, cut 42 inches long.....
 Bilge, 2 in., " 14, " 50 " "

Six-Hoop Quarter Barrel or Keg.

Head, 1¾ in., No. 14, cut 42 inches long.....
 Quarter, 1¼ in., " 15, " 47 " "

Bilge, 1½ in., " 15, " 50 " "

All above put up 50 hoops in a bundle, 4
 bundles each size to 100 sets.

Half Barrel.

Head, 2 in., No. 14, cut 52 inches long....
 Quarter, 1½ in., " 14, " 57 " "

Bilge, 1¾ in., " 14, " 62 " "

Whole Barrel.

Head, 2¼ in., No. 13, cut 63 inches long.....
 Quarter, 1¾ in., " 14, " 69 " "

Bilge, 2 in., " 14, " 78 " "

Whole and half barrel hoops put up 25 hoops
 in a bundle, 8 bundles each size to 100 sets.

Price c. per 100 lbs.

For flaring cut hoops.....15c per 100 lbs. extra.

Hoops under 1¼ inch special.

ALL PRICES SUBJECT TO DISCOUNT.

AGREEMENTS.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

All contracts are subject to strikes, fires, accidents or other contingencies beyond our control.

CLAIMS.

In cases where quality or finish is not as represented material will be replaced, but no claims for labor or damages will be allowed.

ALUMINUM.

We carry the following sizes:

$\frac{1}{2}$ inch square,	$\frac{5}{8} \times \frac{3}{8}$, $\frac{3}{4} \times \frac{3}{8}$	\$1.10 per lb.
$\frac{5}{8}$ " " "	$\frac{5}{8} \times \frac{1}{2}$, $\frac{3}{4} \times \frac{1}{2}$	1.10 "

RAILROAD SPIKES.

$4\frac{1}{2}$, 5 and $5\frac{1}{2} \times \frac{9}{16}$	Base. \$.....	per 100 lbs.
$3\frac{1}{2}$, 4, $4\frac{1}{2}$ and $5 \times \frac{1}{2}$	5c	per 100 lbs. extra.
$3\frac{1}{2}$, 4 and $4\frac{1}{2} \times \frac{7}{16}$	10c	" "
3, $3\frac{1}{2}$, 4 and $4\frac{1}{2} \times \frac{3}{8}$	20c	" "
$2\frac{1}{2} \times \frac{3}{8}$	30c	" "
$2\frac{1}{2}$, 3 and $3\frac{1}{2} \times \frac{5}{16}$	45c	" "
$2 \times \frac{5}{16}$	70c	" "

Reverse Points, $\frac{1}{4}$ cent extra (smallest $3 \times \frac{3}{8}$.)

STREET RAILWAY SPIKES.

					Per 100 lbs.
$\frac{5}{8}$ Square, Counter Sunk Head. Base.	\$.....				
$\frac{9}{16}$ " " " " " "	\$.....				
$\frac{1}{2}$ " " " " " "	\$.....				
					Per 100 lbs. extra.
$\frac{7}{16}$ " " " " " "	10c				
$\frac{3}{8}$ " " " " " "	25c				
$\frac{5}{8}$ " " " " " "	50c				
$\frac{1}{2}$ " " " " " "	90c				

Round, Countersunk Head, 10c extra.

ALL PRICES SUBJECT TO DISCOUNT.

BOAT SPIKES.

Base				Per 100 lbs.
$\frac{3}{4}$ in.	Square,	12 to 24 in.	long.	Extra .....5c
$\frac{5}{8}$	"	8 to 16	"	"5c
$\frac{1}{2}$	"	6 to 16	"	"5c
$\frac{7}{16}$	"	6 to 12	"	"10c
$\frac{3}{8}$	"	4 to 12	"	"20c
$\frac{5}{16}$	"	4 to 8	"	"35c
$\frac{1}{4}$	"	4 to 8	"	"65c
$\frac{1}{4}$	"	3 to $3\frac{1}{2}$	"	"90c

$\frac{3}{8}$ and $\frac{5}{16}$ shorter than 4 in. $\frac{1}{4}$ cent extra.

DRIFT BOLTS.

ROUND OR SQUARE.

$\frac{1}{4}$ inch.... .c. per lb.	$\frac{7}{8}$ inch... .c. per lb.
$\frac{5}{8}$ "c. "	1 "c. "
$\frac{3}{4}$ "c. "	$1\frac{1}{8}$ "c. "

Made to order plain, pointed only, or with square heads, upset heads, large square beveled heads, or round heads, as desired.

DRIFT SPIKES.

FOR MINES, DOCK AND BRIDGE-WORK, ETC.

We can furnish to order, with upset heads, spike heads, square or button heads, and chisel points.

$\frac{1}{2}$ inch square,	12 to 20 inches long....	.c. per lb.
$\frac{9}{16}$ " " "	12 to 20 " "	.c. "
$\frac{5}{8}$ " " "	12 to 20 " "	.c. "

ALL PRICES SUBJECT TO DISCOUNT.

NATIONAL CUT NAIL CARD—*

National List of Extras for Cut Nails, adopted April 30,
1902.

**Common, Fence, Hookhead
Brads and Sheating.**
EXTRAS

20d to 60d Base...	
10d to 16d.....	\$0 05
8d and 9d.....	10
6d and 7d.....	20
4d and 5d.....	30
3½d.....	40
3d.....	45
2d.....	75

**Casing, Box, Flooring and
Finishing (New York
Pattern).**

10d and larger.....	\$0 15
8d and 9d.....	25
6d and 7d.....	35
4d and 5d.....	50
3d.....	70
2d.....	1 00

Fine Finishing.

10d and larger.....	\$0 25
8d and 9d.....	35
6d and 7d.....	45
4d and 5d.....	65
3d.....	85
2d.....	1 15

Fine Nails.

4d.....	\$0 50
3d.....	75
2d.....	1 00
3d fine (Eureka)....	1 25
3d fine (light).....	1 25

Cut Spikes.

All sizes.....	\$0 10
----------------	--------

Light Barrel and Lining.

1½ inch.....	\$0 75
1 inch.....	85
¾ inch.....	1 00
¾ inch.....	1 20

**Common Barrel, Roofing,
Cooper and Cement.**
EXTRAS

1½ inch.....	\$0 30
1¾ inch.....	40
1¼ inch.....	50
1½ inch.....	60
1 inch.....	70
¾ inch.....	85
¾ inch.....	1 00

Slatting.

6d.....	\$0 30
4d and 5d.....	40
3d.....	60
2d.....	80

**Clinch, Car, Boat, Cnute,
Clout, Hoop and Hinge.**

3 inch and larger...	\$0 45
2½ and 2¾ inch...	55
2 and 2¼ inch...	65
1½ and 1¾ inch...	75
1¼ inch.....	95
1½ inch.....	1 05
1 inch.....	1 15
¾ inch.....	1 30
¾ inch.....	1 45

Tobacco Mfrs. Box Nails.

6d and 7d Lining...	\$0 20
4d and 5d.....	30
5d Caddy.....	30
4d ".....	50
3d ".....	70

Tobacco Warehouse.

8d.....	\$0 10
6d and 7d.....	20
4d and 5d.....	40

Each Half Keg 10 Cents Extra.

ALL PRICES SUBJECT TO DISCOUNT.

NATIONAL STEEL WIRE NAIL CARD

Adopted December 1, 1896.

**Common, Fence, Shingle,
Tobacco, Flooring and
Common Brads.**

ADVANCES

20d to 60d Base.....	
10d to 16d.....	\$0 05
8d and 9d.....	10
6d and 7d.....	20
4d and 5d.....	30
3d.....	45
2d.....	70

**Barbed Common and Barb-
ed Car Nails.**15 cents advance over
common.**Casing and Smooth Box
Nails.**

10d and larger.....	\$0 15
8d and 9d.....	25
6d and 7d.....	35
4d and 5d.....	50
3d.....	70
2d.....	1 00

Barbed Box, 15 cents
advance over smooth nails.**Smooth Finishing Nails.**

10d and larger.....	\$0 25
8d and 9d.....	35
6d and 7d.....	45
4d and 5d.....	65
3d.....	85
2d.....	1 15

Lining Nails.

$\frac{3}{4}$ inch.....	\$1 20
$\frac{7}{8}$ inch.....	1 00
1 inch.....	80

Slatting Nails.

2d.....	\$0 80
3d.....	60
4d.....	40
5d.....	40
6d.....	30

Fine Nails.

2d.....	\$1 00
3d, $1\frac{1}{8}$ x15.....	50
3d, extra fine, $1\frac{1}{8}$ x16.....	65

Barrel Nails.

ADVANCES

$\frac{3}{4}$ inch.....	\$1 00
$\frac{7}{8}$ inch.....	85
1 inch.....	70
$1\frac{1}{8}$ inch.....	60
$1\frac{1}{4}$ inch.....	50
$1\frac{3}{8}$ inch.....	40
$1\frac{1}{2}$ inch.....	30

Barbed Roofing Nails.

$\frac{3}{4}$ inch.....	\$0 75
$\frac{7}{8}$ inch.....	65
1 inch.....	60
$1\frac{1}{8}$ inch.....	60
$1\frac{1}{4}$ inch.....	55
$1\frac{1}{2}$ and $1\frac{3}{4}$ inch....	45
2 inch.....	35

**Clinch Nails (Annealed or
Bright).**

2d.....	\$1 05
3d.....	85
4d and 5d.....	65
6d and 7d.....	55
8d and 9d.....	45
10d to 20d.....	35

**Hinge Nails (Annealed or
Bright).**

4d.....	\$0 80
6d.....	70
8d.....	60
10d and larger.....	50

Boat Nails.

25 cents extra over hinge.

Spikes.

All sizes to 9 inch..	\$0 10
10 and 12-inch.....	25

Barbed Dowel Pins.

$\frac{5}{8}$ inch.....	\$2 00
$\frac{3}{4}$ inch.....	1 75
$\frac{7}{8}$ inch.....	1 50
1 inch.....	1 25
$1\frac{1}{8}$ inch.....	1 15
$1\frac{1}{4}$ inch.....	1 00
$1\frac{3}{8}$ inch.....	1 00
$1\frac{1}{2}$ inch.....	1 00

Annealed Nails (except Clinch and Hinge) 15c extra.

Blued Nails 25c extra.

Wire Spikes, Special Gauges, 10c additional.

ALL PRICES SUBJECT TO DISCOUNT.

MISCELLANEOUS WIRE NAIL LIST.

★

July 20, 1899.

Applying to all Nails except Standard Nails in Kegs.

Prices stated are for Nails in 1, 5 and 10 lb. pkgs.

Length.	Gauge.	Per lb.	Length.	Gauge.	Per lb.
	No. 19.....	\$1.00		No. 7 to 12...	\$0.30
$\frac{1}{4}$ in...	" 20.....	1.25	$1\frac{1}{8}$ in.	" 13.....	.31
	" 21.....	1.55		" 14.....	.32
	" 22.....	1.90		" 15.....	.32
	" 18.....	.80		" 16.....	.35
$\frac{3}{8}$ in...	" 19.....	.90	$1\frac{1}{4}$ and $1\frac{3}{8}$ in.	" 17.....	.40
	" 20.....	1.00		" 18.....	.43
	" 21.....	1.25		" 19.....	.53
	" 22.....	1.55		" 6 to 12..	.29
$\frac{1}{2}$ in.	" 14 to 16..	.55	$1\frac{1}{2}$ and $1\frac{5}{8}$ in.	" 13.....	.30
	" 17.....	.60		" 14.....	.31
	" 18.....	.65		" 15.....	.32
	" 19.....	.75		" 16.....	.34
$\frac{5}{8}$ in...	" 20.....	.85	$1\frac{3}{4}$ in.	" 17..	.39
	" 21.....	1.00		" 4 to 13..	.29
	" 22.....	1.25		" 14.....	.30
	" 12 to 14..	.43		" 15.....	.31
$\frac{3}{4}$ in...	" 15.....	.45	2 in	" 16.....	.33
	" 16.....	.50		" 17.....	.38
	" 17.....	.52		" 4 to 13..	.28
	" 18.....	.58		" 14.....	.29
$\frac{7}{8}$ in...	" 19.....	.65	$2\frac{1}{4}$ in.	" 15.....	.30
	" 20.....	.75		" 16.....	.32
	" 21.....	.85		" 17..	.38
	" 22.....	1.10		" 3 to 10..	.27
$\frac{1}{2}$ in...	" 10 to 12..	.36	$2\frac{1}{2}$ in.	" 11.....	.28
	" 13.....	.38		" 12.....	.28
	" 14.....	.38		" 13.....	.28
	" 15.....	.42		" 14.....	.29
$\frac{1}{4}$ in...	" 16.....	.43	$2\frac{3}{4}$ in.	" 15.....	.30
	" 17.....	.46		" 16.....	.35
	" 18.....	.52		" 3 to 10..	.27
	" 19.....	.60		" 11.....	.28
$\frac{3}{8}$ in...	" 20.....	.70	3 in....	" 12.....	.28
	" 21.....	.85		" 13.....	.28
	" 8 to 12..	.33		" 14.....	.29
	" 13.....	.34		" 3 to 10..	.26
$\frac{1}{2}$ in...	" 14.....	.35	$3\frac{1}{4}$ in.	" 11.....	.27
	" 15.....	.36		" 12.....	.27
	" 16.....	.39		" 3 to 10..	.26
	" 17.....	.43		" 11.....	.27
$\frac{3}{4}$ in...	" 18.....	.45	$3\frac{1}{2}$ in.	" 12.....	.27
	" 19.....	.56		" 3 to 10..	.25
	" 20.....	.67		" 11.....	.26
	" 7 to 12..	.30		" 12.....	.27
1 in....	" 13.....	.31	4 in....	" 3 to 10..	.25
	" 14.....	.32		" 11.....	.26
	" 15.....	.33		" 12.....	.27
	" 16.....	.36		" 3 to 10..	.25
	" 17.....	.40		" 11.....	.26
	" 18.....	.43		" 12.....	.27
	" 19.....	.53		" 3 to 10..	.25
	" 20.....	.64		" 11.....	.26

See extras top next page.

ALL PRICES SUBJECT TO DISCOUNT.

★ MISCELLANEOUS WIRE NAILS.

LIST EXTRAS—Subject to Discount.

Add to list 4 cents per pound for $\frac{1}{2}$ -lb. paper boxes.

“ 8 “ “ “ $\frac{1}{4}$ -lb. “ “
 “ 2 “ “ “ barbing.
 “ 2 “ “ “ annealing.
 “ 2 “ for Cone Heads, Special Heads and

Headless.

Add to list 2 cents for Needle Points and Special Points.

For nails combining several specialties, add as above for each.

For sizes not appearing on the list, use the list prices for the desired gauge in the nearest shorter length. Nails heavier than listed, at special net prices, according to quantity.

Tinned or Galvanized Nails at special prices.

REBATES FROM LIST PRICES.

Rebate for 25 and 50-pound boxes, 1 cent per pound.

Rebate for Nails in 100-lb. kegs, 2 cents per pound.

Finishing and Clout Nails—★

$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1 to 2 in.
.58	.59	.32	.27	.24	23c. per lb.

Chair Nails—★

$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	1 $\frac{1}{4}$ in.
.46	.38	.33	.30	.28	26c. per lb.

Patent Brads—★

$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2 in.
1.20	.81	.67	.50	.42	.37	.34	.31	.23	25c. per lb.

Corrugated Steel Fasteners, Showing different corrugations—★



2



3



4



5 Corrugations

Price per 1000.

Length.	Number of Corrugations.						
	2	3	4	5	6	7	8
3 $\frac{1}{4}$ in.	\$.55	\$.75	\$.95	\$1.20	\$1.47	\$1.60	\$1.80
16 “	.45	.60	.75	.90	1.10	1.30	1.50
$\frac{1}{4}$ “	.45	.60	.75	.90	1.10	1.30	1.50
$\frac{3}{8}$ “	.55	.75	.95	1.20	1.40	1.60	1.80
$\frac{1}{2}$ “	.60	.80	1.00	1.25	1.50	1.80	2.10
$\frac{5}{8}$ “	.80	1.00	1.25	1.55	1.85	2.20	2.55
$\frac{3}{4}$ “	.90	1.15	1.45	1.80	2.15	2.50	2.85
$\frac{7}{8}$ “	1.00	1.35	1.75	2.15	2.55	3.00	3.45
1 “	1.15	1.45	1.85	2.30	2.85	3.35	3.85

ALL PRICES SUBJECT TO DISCOUNT.

LENGTHS AND GAUGES OF STANDARD STEEL WIRE NAILS.

Size.	Length, Inch.	Common.	Barbed Common.	Clinch.	Fence.	Common Brads.	Smooth and Barbed Finishing.	Fine.	Barrel.	Casing.	Smooth Box.	Barbed Box.	Flooring Brads.	Barbed Car.		Slatng.	Barbed Roofing.	Shingle.	Tobacco.	Lining.	Spikes.
														Lt.	Hvy.						
.....	3 1/2								15								13				
2d	1 3/8	16	15	14	.....	16	17	17	15	16 1/2	16 1/2	15	.....	.....	.....	13	12	.....	.....	17	
3d	1 1/2	15 1/2	14	13	.....	15 1/2	16 1/2	16	14	16	16	16	.....	.....	.....	11	11	.....	.....	17	
4d	1 3/8	13 1/2	13	12 1/2	.....	13 1/2	15 1/2	16	13	15	15	15	.....	.....	.....	10	10	.....	.....	17	
5d	1 1/2	13	12	12 1/2	.....	13	14	16 1/2	14	14	14	14	.....	.....	.....	9	10	.....	.....	17	
6d	1 3/4	12 1/2	11	11	.....	12 1/2	13 1/2	13 1/2	13	13 1/2	13 1/2	13 1/2	.....	.....	.....	9	9	.....	.....	17	
7d	2 1/4	12	11	10	.....	12	13 1/2	13	12	13	13	13	.....	.....	.....	8	11	.....	.....	17	
8d	2 1/2	11 1/2	11	10	.....	11 1/2	12 1/2	12 1/2	11 1/2	12 1/2	12 1/2	12 1/2	.....	.....	.....	8	10	.....	.....	17	
9d	2 3/4	11	10	10	.....	11	12	12	11	11 1/2	11 1/2	11 1/2	.....	.....	.....	7	10	.....	.....	17	
10d	3	10 1/2	9	9	.....	10 1/2	11	11	10	11	11	11	.....	.....	.....	6	10	.....	.....	17	
12d	3 1/4	9 1/2	8	8	.....	9 1/2	10 1/2	10 1/2	9 1/2	10 1/2	10 1/2	10 1/2	.....	.....	.....	6	10	.....	.....	17	
14d	3 1/2	8 3/4	7	7	.....	8 3/4	10	10	8 3/4	9 1/2	9 1/2	9 1/2	.....	.....	.....	5	10	.....	.....	17	
20d	4 1/2	6 3/4	5	.....	.....	6 3/4	10 1/2	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	17	
30d	5 1/2	6	4	.....	.....	6	10 1/2	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	17	
40d	6	4 1/2	.....	.....	.....	4 1/2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	17	
50d	6 1/2	3 1/2	.....	.....	.....	3 1/2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	17	
60d	6	3	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	17	

ALL PRICES SUBJECT TO DISCOUNT.

Pages 27 to 192.

DEPARTMENT

Heavy Hardware

Tools and Machines

HORSE SHOES,
HORSE NAILS,
HORSE RASPS,
FILES,
BOLTS,
NUTS,
WASHERS,
RIVETS,
SCREWS,
EMERY WHEELS,
SAND PAPER,
ANVILS,
VISES,
TIRE SHRINKERS,
HUB BOXING MACHINES,
DRILLING MACHINES, ETC.

HORSE AND MULE SHOES.**STANDARD MAKES AND REGULAR PATTERNS OF IRON SHOES.**

Phoenix, Burden or Perkins, extra light, light, medium and heavy.

	per keg
Horse Shoes, No. 2 and larger, regular patterns.....	
Perkins Long Heel, Countersunk and Snow.....	
" Favorite	
" Cow Boy.....	
Toe-Weight	
Side-Weight.....	
Calked.....	
Goodenough Summer	
" Winter	
Phoenix Plain Prairie	
" Calked "	
Shoenberger Juniata Snow.....	
Jack.....	
Mule, No. 1 and larger.....	
" Nos. 00 and 0	
" Calked.....	
All shoes Nos. 0 and 1, 25 cents per keg extra.	

STANDARD MAKES OF STEEL SHOES.

	per keg.
Phoenix E E L Steel No. 2 and larger.....	
" E L " No. 2 " "	
Thin Steel Countersunk, No. 2 and larger.....	
Perkins' XL Steel, No. 2 and larger.....	
Shoenberger Steel, light pattern, No 2 and larger....	
All shoes Nos. 0 and 1, 25 cents per keg extra.	

ALL PRICES SUBJECT TO DISCOUNT.

Covington-Kent Steel Racing Plates—

Made in Front and Hind.

**Cross Section.**

Styles, sizes, weights and outside measurements as follows:



	00	0	1	2	3	4	
Light Racing, front.....	1 $\frac{7}{8}$	2	2 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{3}{4}$	3	ounces
Heavy Racing front.....			2 $\frac{3}{4}$	3	3 $\frac{1}{4}$	3 $\frac{1}{2}$	"
Training.....			3 $\frac{3}{4}$	4 $\frac{1}{4}$	4 $\frac{1}{2}$	5	"
Width of all front, about..	3 $\frac{7}{8}$	4 $\frac{1}{8}$	4 $\frac{1}{4}$	4 $\frac{1}{2}$	4 $\frac{7}{8}$	5	inches
Length of all front, about	3 $\frac{7}{8}$	4	4 $\frac{1}{2}$	4 $\frac{5}{8}$	4 $\frac{7}{8}$	5	"

Put up 10 sets (assorted Front and Hind) in wooden boxes. Hind plates weigh about one-fourth of an ounce less than front, and in outside measurement vary about one-sixteenth of an inch.

Price, per set of four plates.....90 cents.

Postage on single set.....15 cents.

C.—K. Steel Toe Racing Plates—

Measurements and weights same as above. Made light and heavy. Has a Steel Toe Calk set at proper angle.

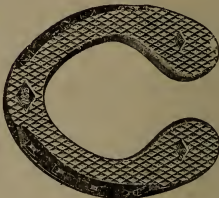
Price per set of four plates.....90 cents.

Postage on single set.....15 cents.

W. & B. Rubber Horse Shoes—*

A perforated steel frame filled with rubber.

No.	Price per Pair.	Set.	No.	Price per Pair.	Set.
1	\$0.93	\$1.85	4	\$1.30	\$2.60
2	1.00	2.00	4 $\frac{1}{2}$	1.38	2.75
2 $\frac{1}{2}$	1.08	2.15	5	1.50	3.00
3	1.15	2.30	6	1.63	3.25
3 $\frac{1}{2}$	1.23	2.45			

Made in Light Fronts, Nos. 1, 2, 3, 3 $\frac{1}{2}$ and 4.Made in Heavy Fronts, Nos. 2, 2 $\frac{1}{2}$, 3, 3 $\frac{1}{2}$, 4, 4 $\frac{1}{2}$, 5 and 6.Made in Heavy Hinds, Nos. 1, 2, 3, 3 $\frac{1}{2}$ and 4.**Calumet Rubber Horse Shoes—***

A perforated drop-forged steel frame into which is fitted a pair of replaceable rubber heel calks. Fiber rubber is set around the toe.

Nos.	2	3	3 $\frac{1}{2}$	4	5	6
	\$1.50	1.50	1.50	1.50	1.50	1.50

ALL PRICES SUBJECT TO DISCOUNT.

HOOF PADS.**Air Cushion, Regular—★**
Leather Back.

Price per pair.	
No. 1	\$1.00
" 1½	1.00
" 2	1.00
" 2½	1.00
" 3	1.00
" 3½	1.00
No. 4	\$1.00
" 4½	1.15
" 5	1.25
" 5½	1.35
" 6	1.45
" 7	1.65

Air Cushion Road Pads—★

Nos.	2½	3	3½	4	4½
	\$1.00	\$1.00	\$1.00	\$1.00	\$1.15 per pair

Revere Banner, Leather Back—★

Price per pair.		Price per pair.	
No. 0	\$0.80	No. 4	\$0.80
" 1	.80	" 4½	.85
" 2	.80	" 5	.90
" 2½	.80	" 6	1.00
" 3	.80	" 7	1.20
" 3½	.80	" 8	1.40

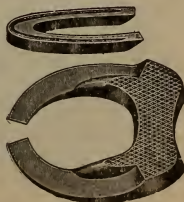
**Acme, Canvas Back—★**

Price per pair.		Price per pair.	
No. 1	\$0.55	No. 4½	\$0.65
" 2	.55	" 5	.70
" 2½	.55	" 6	.80
" 3	.55	" 7	.90
" 3½	.55	" 8	1.10
" 4	.55		

Dryden, Canvas Back—★

Medium and Heavy.

Price per pair.		Price per pair.	
No. 0	\$0.70	No. 4	\$1.10
" 1	.80	" 5	1.20
" 2	.90	" 6	1.35
" 2½	.90	" 7	1.50
" 3	1.00	" 8	1.60
" 3½	1.00		



ALL PRICES SUBJECT TO DISCOUNT.

HOOF PADS. Continued.**Buckeye, Leather Back—★**

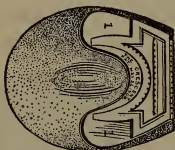
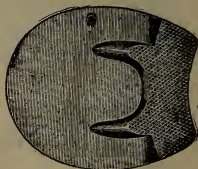
Medium and Heavy.

Price per pair.			Price per pair.		
No. 1	\$0.80		No. 4	\$1.10	
" 2	.90		" 5	1.20	
" 2½	.90		" 6	1.35	
" 3	1.00		" 7	1.50	
" 3½	1.00		" 8	1.60	

Derby, Canvas Back—★

Price per pair.

Nos.	1 to 5	6	7	8	9
Medium	\$0.70	1.00	1.00	1.00	...
Heavy.	.80	1.10	1.10	1.10	1.50

**Essex, Regular, Canvas Back—★**

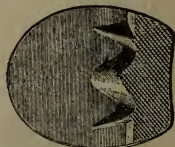
Price per pair.

Nos. 1	2	2½	3	3½	4	4½	5
\$0.50	.50	.50	.55	.55	.55	.60	.65
He'y Nos. 2	3	4	5	6	7	8	
\$0.55	.60	.65	.70	1.00	1.25	1.30	

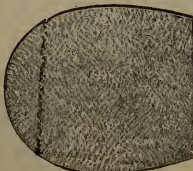
Crescent, Leather Back—★

Summer and Winter Patterns.

No.0	\$0.90	No.5	\$1.15 per pair.
" 1	.90	" 6	1.25
" 2	.90	" 7	1.30
" 3	.95	" 8	1.50
" 4	1.00		

**Crescent Racing, Same style as Crescent, but lighter.★**

No.0	\$1.10	No.5	\$1.35 per pair.
" 1	1.10	" 6	1.45
" 2	1.10	" 7	1.50
" 3	1.15	" 8	1.70
" 4	1.20		

**New York Plain Leather Pads—★**

Made of best quality of oak tanned sole leather. Sizes correspond with front shoes of standard makes.

Price per dozen.

2	3	4	5	6	7	8
\$0.75	.85	1.00	1.20	1.40	1.60	1.80

ALL PRICES SUBJECT TO DISCOUNT.

Horse Nails—★

		Price cents per pound.							
	Nos. 4	5	6	7	8	9	10	11	12
Ausable		21	28	26	25	24	23	23	
Capewell.....	35	22	19	18	17	16	16	15	
Coleman	35	21	18	16	15	14	13		
Goodenough.		26	23	21	20	19	18		
Improved Western		26	23	21	20	19	18		
Lucky		26	23	21	20	19	18		
Putnam W.....		22	19	18	17	16	16		
New Standard ...	40	26	23	21	20	19	18	18	18
Star		26	23	21	20	19	18		

Put up in 25-lb. wooden boxes containing five paper packages of 5-lbs. each.

When ordering Horse Nails state whether large or small heads are wanted.

Plate Nails—★

	Nos. 4½	4	3	2	1
Ausable	\$0.40	.50	1.00	2.00	3.00 per lb.

Toe Calks—

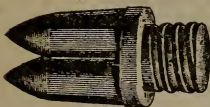
Put up in 25-lb. boxes.

All Standard Brands, Blunt.....	8c. per lb.
“ “ “ Sharp.....	9c. “

Less than full boxes of 25 lbs. 1c. extra per lb.

Sweet's Toe Calks—★

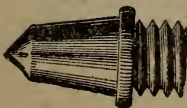
Bessemer, All sizes.....	8c. per lb.
American, “.....	11c. “
Swedish, “.....	13c. “

**Surefoot Horseshoe Calks—**

¾	7-16	½	9-16 inch.
\$3.30	3.60	3.90	4.20 per 100

Put up 50 in a box. Can be inserted with any common wrench.

A double steel center calk.

**Neveralip Horseshoe Calks.**

5-16	¾	7-16	½	9-16	⅝ in.
\$3.00	3.30	3.60	3.90	4.20	4.80

Put up 50 in a box. All patterns same price.

ALL PRICES SUBJECT TO DISCOUNT.

Welding Dies—

For welding sharp Toe Calks.



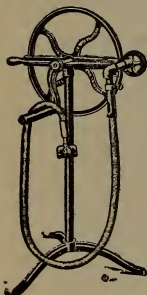
For Nos. 0, 1 and 2 Calks.



For Nos. 3 and 4 Calks.

Dies for Nos. 0, 1 and 2 Calks.....\$1.00 each.
 Dies for Nos. 3 and 4 Calks..... 1.00 "

Chicago Horse Clippers—★



1902.



20th Century.

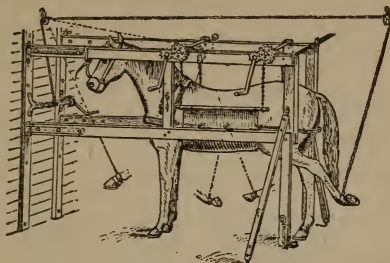
1902. Built strong and durable. Positive power, no belts to slip. Flexible chain shaft securely covered.....\$10.75

20th Century. This machine costs but little more than a hand clipper. Will clip as fast as any one of this type. Flexible steel shaft..... 5.00

Both machines supplied with the Dust Proof Chicago Clipper Knife.

Extra Parts, Chicago Knife and Handle complete...\$4.50
 Chicago Knife, without handle..... 2.50
 Handle only 2.50
 Top Plate 1.00
 Bottom Plate 1.50
 Grinding Clipper Knives..... .50
 Chain for Flexible shaft, per foot..... .30
 Flexible Shaft, per foot..... .75
 Coil, without chain, per foot..... .50

ALL PRICES SUBJECT TO DISCOUNT.

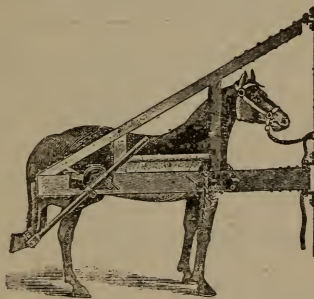
Acme Shoeing Racks—

Patented Dec. 29th, 1896.

This is the lightest, most convenient and durable rack made. When not in use the frame swings back against the wall out of the way. - A vicious horse can be led to position and the frames then swung to his sides holding him securely.

Rack complete\$70.00

To parties desiring to make this rack for their own use we furnish necessary castings and canvas belt with shop-right and complete directions for constructing the rack for. . \$14.00

Barcus' Shoeing Stocks—

The peculiar feature of this Stock is the Automatic Ankle-Clamp with the Lifting Bar. No danger of bruising or chafing the ankle. The foot can be held in any position. We send directions for setting up. In ordering give height of ceiling.

Price complete\$105.00

Extra Lifting Bar and Clamp..... 34.00

ALL PRICES SUBJECT TO DISCOUNT.

Baum's Liquid Hoof Dressing—

Pints,	1 doz. cans in case	.....	\$ 5.20	per doz. cans
Quarts,	1 " " "	.....	8.00	" "
Half Gallons,	1 " " "	.....	15.20	" "
Gallons,	1 " " "	.....	28.80	" "

A brush for applying furnished with each can.

Pine Tar—.....50c. per gallon.

Oakum—50 lb. bales.10½c. per lb.

Prussiate of Potash—For hardening.50c. "

Borax—Best refined.16c. "

Boraxette—In 5 and 10 lb. packages.16c. "

Cherry Heat Welding Compound—

5 lbs	.....	18c.	per lb.
10 lbs.	.....	17½	"
600 lbs.—Whole bbls.	.....	15c.	"

Climax Welding Compound—

5 and 10 lb. packages.16c. per lb.

Banner Welding Compound—

5 and 10 lbs.14c. "

Log Chains with Hooks and Swivel—

	¼ inch, 10, 12 and 14 feet	.....	c. per lb.
	5-16 inch, 12 and 14 feet.	.....	c. "
	¾ inch, 12 and 14 feet	.....	c. "
	7-16 and ½ inch	.....	c. "
	9-16 and ⅝ inch	.....	c. "

½c. per lb. advance on chain.

Binding Chains with ring hook and swivel, same price as Log Chains.

Rafting Chains, complete with rings ready for use, to order.

Boom Chains, complete with toggles ready for use, to order.

Bright Twist Link Coil Chain

* No.	000	00	0	1	2	3	4	
German.	\$11.00	10.00	8.80	7.80	7.20	6.80	6.60	per 100 ft.
American.	7.30	6.15	5.50	4.75	4.10	3.90	3.80	" "

ALL PRICES SUBJECT TO DISCOUNT.

Proof Coil Chain—

Straight Link.

Proof tests adopted November 11th, 1896.

Size.	Proof. Lbs.	BB Crane. Lbs.	BBB Crane. In Lbs.	Average Weight Per Foot. Lbs.
$1\frac{3}{16}$ "	700	770	900	.5
$1\frac{1}{4}$	1,200	1,320	1,500	.9
$1\frac{5}{16}$	2,500	2,750	3,200	1.22
$1\frac{3}{8}$	3,500	3,850	4,425	1.6
$1\frac{7}{16}$	4,800	5,280	6,100	2.0
$1\frac{1}{2}$	6,200	6,820	7,850	2.5
$1\frac{9}{16}$	7,800	8,580	9,870	3.2
$1\frac{5}{8}$	9,600	10,560	12,150	4.2
$1\frac{11}{16}$	11,500	12,650	14,550	5.0
$1\frac{3}{4}$	12,800	15,180	17,475	5.9
$1\frac{13}{16}$	16,200	17,820	20,500	6.7
$1\frac{7}{8}$	18,800	20,680	23,780	7.9
$1\frac{15}{16}$	21,500	23,650	27,200	9.0
1	24,600	27,100	31,200	10.2
$1\frac{1}{16}$	26,300	28,930	33,300	11.4
$1\frac{1}{8}$	29,500	32,450	37,300	12.7
$1\frac{3}{16}$	33,000	36,300	41,750	14.2
$1\frac{1}{4}$	36,500	40,150	46,175	15.8
$1\frac{5}{16}$	40,000	44,000	50,600	17.2
$1\frac{3}{8}$	44,000	48,400	55,660	18.8
$1\frac{7}{16}$	48,200	53,000	60,950	20.4
$1\frac{1}{2}$	52,500	57,750	66,400	22.2
$1\frac{9}{16}$	57,000	62,700	72,100	24.0
$1\frac{5}{8}$	61,700	67,870	78,050	26.7
$1\frac{11}{16}$	66,500	73,150	84,120	28.5
$1\frac{3}{4}$	71,600	78,760	90,575	31.0

"BB" quality, extra $1\frac{1}{4}$ c. per lb."BBB" " " $1\frac{3}{4}$ c. "

Safe working load should be about one-half of proof test.

The breaking strain is about double the proof test.

Prices Quoted on Application.

Twist Link, up to and including 7-16 in., extra $\frac{1}{4}$ c. per lb.

ALL PRICES SUBJECT TO DISCOUNT.

Lap Links— Price per gross.


5-16x1 $\frac{3}{4}$ in.....	\$1.62	$\frac{1}{2}$ x2 in.....	\$3.87
5-16x2 ".....	1.80	$\frac{1}{2}$ x2 $\frac{1}{2}$ ".....	4.41
$\frac{3}{8}$ x1 $\frac{5}{8}$ ".....	1.98	$\frac{1}{2}$ x3 ".....	5.04
$\frac{3}{8}$ x2 ".....	2.52	9-16x2 $\frac{1}{2}$ ".....	6.48
$\frac{3}{8}$ x2 $\frac{1}{2}$ ".....	3.06	9-16x3 ".....	8.10
7-16x2 $\frac{1}{2}$ ".....	3.60	$\frac{5}{8}$ x2 $\frac{1}{2}$ ".....	7.65
7-16x3 ".....	4.41	$\frac{5}{8}$ x3 ".....	9.00

Lap Rings— Price per gross.


5-16x1 $\frac{1}{2}$ in.....	\$1.98	$\frac{1}{2}$ x2 in.....	\$4.95
5-16x2 ".....	2.43	$\frac{1}{2}$ x2 $\frac{1}{2}$ ".....	5.67
$\frac{3}{8}$ x1 $\frac{1}{2}$ ".....	2.52	$\frac{1}{2}$ x3 ".....	6.48
$\frac{3}{8}$ x2 ".....	3.42	9-16x2 $\frac{1}{2}$ ".....	8.10
7-16x2 ".....	4.41	$\frac{5}{8}$ x2 $\frac{1}{2}$ ".....	9.45
7-16x2 $\frac{1}{2}$ ".....	4.77	$\frac{5}{8}$ x3 ".....	10.35

Chain Hooks, Flat and Grab—*


For $\frac{1}{4}$	5-16	$\frac{3}{8}$	7-16	$\frac{1}{2}$	$\frac{5}{8}$ in. chain
\$15.00	16.00	18.00	21.00	23.00	34.00
per 100					



In pairs, one Flat and one Grab Hook.

Cold Shuts*


For $\frac{1}{4}$	5-16	$\frac{3}{8}$	7-16	$\frac{1}{2}$	$\frac{5}{8}$ in. chain.
\$3.50	3.70	4.00	4.85	6.00	11.00
per 100					

Weston's Differential Pulley Blocks—*



	Capacity, in tons	Weight, lbs.	Hoist, feet	Price	Regular Lengths, feet		Extra Main Chain, per foot	Hand Chain, per foot.
					Main Chain	Hand Chain		
Direct.	$\frac{1}{4}$	22	6	\$18.00	22	....	\$0.75	....
	$\frac{1}{2}$	30	7	21.00	26	....	.80	....
	1	51	8	23.00	30	....	.85	....
	1 $\frac{1}{2}$	81	8 $\frac{1}{2}$	36.00	35	....	.90	....
	2	122	9	45.00	36	....	.95	....
	3	173	10	60.00	38	....	1.00	....
Geared.	1	62	8	52.00	22	16	.80	\$0.85
	2	109	9	70.00	24	18	.85	.85
	3	150	10	90.00	26	20	1.00	.85
	4	257	11	110.00	28	22	1.15	.85
	5	324	12	140.00	30	24	1.30	.90
	6	493	13	175.00	32	26	1.50	.90
	8	735	14	240.00	36	28	1.80	.90
	10	1035	16	325.00	40	30	2.10	1.00

Extra lengths of chain.

Direct Blocks, allow 4 ft. of chain for each foot of extra hoist.

Geared Blocks, allow 2 $\frac{1}{2}$ ft. of main chain and 2 ft. of hand chain for each foot of extra hoist.

Extra parts furnished on application.

On application we will send catalogue and quote prices on Weston's Triplex Spur-Gear Blocks.

ALL PRICES SUBJECT TO DISCOUNT.

"Hartz" Steel Lock Snatch Blocks—★

Graphite bronze bushings. Will not unlock when in use.

	Length of Strap.	Size of Sheave	Diameter of Rope	Price
	7 in.	3½ x 1¼	¾ and ¾	\$5.50
	8 in.	4 x 1½	1 and 1½	7.00
	10 in.	5½ x 1¾	1¼ and 1½	9.00
	12 in.	7 x 2	1½ and 1¾	11.50
	14 in.	8 x 2¼	1¾ and 1¾	15.00
	16 in.	9 x 2½	2 and 2¼	20.00

"Hartz" Steel Tackle Blocks—★

Regular mortise with plain bushing, and safety link hook.

	Length of Shell	Diameter of Rope	Description	Price Japanned	Price Galvanized
	4 in.	½ in.	Single Double Triple	\$0.85 1.60 2.15	\$1.00 1.80 2.70
	5 in.	5⁄8 in.	Single Double Triple	.90 1.75 2.25	1.10 2.05 2.85
	6 in.	¾ in.	Single Double Triple	1.10 2.00 2.90	1.35 2.45 3.75
	7 in.	¾ in.	Single Double Triple	1.30 2.40 3.50	1.75 3.15 4.85
	8 in.	1 in.	Single Double Triple	1.65 2.85 4.25	2.35 3.85 5.75
	9 in.	1½ in.	Single Double Triple	1.85 3.40 4.75	2.75 4.75 6.75
	10 in.	1¼ in.	Single Double Triple	2.75 4.50 6.25	3.95 6.40 9.00
	12 in.	1¾ in.	Single Double Triple	4.45 7.50 10.65	6.20 10.00 15.00
	14 in.	1¾ in.	Single Double Triple	7.00 10.50 15.00	9.50 14.00 21.00

ALL PRICES SUBJECT TO DISCOUNT.

Steel Plow Beams, shaped—★

Form.	No.	Size, Inch.	Weight, Lbs.	Length, Inch.	Height, Inch.	Price, Each.
	0	1½x2½	26	40	23	\$3.00
	1	1¼x2½	30	41	23½	3.00
	2	1¾x2½	34	42	24	3.25
	3	1½x2½	38	43	24½	3.50
	4	1½x2¾	42	44	25	3.75
	5	1½x2¾	46	45	25½	4.00
Meteor						

Rolling Coultter Blades, Finished—

12 inch Diameter.....	\$0.90 each
13 " " ".....	1.00 "
15 " " ".....	1.20 "
16 " " ".....	1.30 "


Coultter Hubs—★

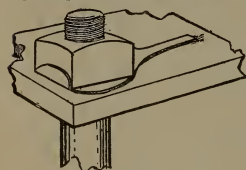
Patent.....46c. each.

Star Cultivator Attachments—★

Wrought Steel. For Steel Beam Cultivators.



Star Sleeves.....	12c. each
Star Shovel Blocks.....	6c. "
Star Washers	1c. "
Tee Head Bolts for same...	2c. "

Jones' Positive Nut Locks—★


Application.



Nut Lock.

Style No. 6. For use on agricultural implements, farm machinery, separators, etc.

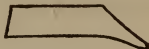
For	1/4	5-16	3/8	7-16	1/2 in. bolts.
	\$9.65	9.95	10.05	10.40	10.60 per 1000 count.

We are general Sales Agents for these Nut Locks.

ALL PRICES SUBJECT TO DISCOUNT.

Universal Plow Shares, with landside welded on—★

	12 in.	14 in.	16 in.
Soft Center Steel..	\$4.70	\$5.00	\$5.40 each
Crucible Steel....	3.50	3.80	4.10 "
Solid Cast Steel....	3.30	3.60	3.90 "

Plow Shares—★

Soft Center Steel, upset, ribbed, single and double
shin, 12, 14 and 16 in34c. per lb.

Crucible Cast Steel, upset, ribbed, single and double
shin, 12, 14 and 16 in24c. "

Open Hearth Steel for Breaking Plows, upset only,
12, 14 and 16 in21c. "

Solid Cast Steel, special shares, upset only, 12, 14
and 16 in21c. "

12 in. shares are cut from steel 5½ in. wide.

14 " " " " " 5½ and 6 in. wide.

16 " " " " " 6 in. wide.

Leader Plow Shares—

Soft Center, 12, 14 and 16 in19c. per lb.

Crucible Steel, 12, 14 and 16 in12c. "

Solid Cast Steel, 12, 14 and 16 in.9½. "

12 in. shares are cut from steel 5¼ in. wide.

14 and 16 in. shares are cut from steel 6 in. wide.

**Lister Shares—★ Regular Pattern.**

Crucible Cast Steel, 14 in.32c. per lb.

" " " 16 "32c. "

Soft Center Steel, 14 "56c. "

" " " 16 "56c. "

Solid Cast Steel, 14 and 16 in.29c. "

Drawn, shaped and polished, ready to
fit the plow.

Subsoilers—★

Wing pattern90c each.

Plain "90c. "

Deere	No. 1.	2	3
	\$1.50	\$1.50	\$1.60 each.

Landside Plates—★

Crucible Cast Steel, 14 and 16 in.22c. per lb.

Soft Center Steel, 14 and 16 in.34c.

Solid Cast Steel.20c. "

Landside Holders—★

"Ideal"\$1.50 each.

A tool for holding the landside in place while
welding it to the share.



ALL PRICES SUBJECT TO DISCOUNT.

**"Ideal" Clamps—★**

For holding landside point to plow-share while welding to the share, \$1.00 ea.

Landside Points, Forged—★

14 in.....	7-16	1/8	5/8 inch.
16 in.....	36c.	38c.	46c. each.
	40c.	43c.	50c. "

**Fin Coulters—★**

Cast Steel, finished.....\$1.20 each.
Can be easily adapted to any plow.

Plow Points—★

No. 1, Small.....	16c each.
No. 2, Large.....	18c "

Packed 1 doz. in a box.

**Cultivator Shovels—★**

5 in. 3 or 3 1/2 in.



Crucible Cast Steel.....	25c. per lb.	29c per lb.
Soft Center Steel.....	37c. "	40c "
Solid Cast Steel.....	23c. "	27c "

Cultivator Shovel Points—★

Solid Steel, small	14c each.
" medium.....	18c "
" large.....	19c "
" solid top.....	19c "
Soft Center Steel, small.....	30c "
" " medium.....	36c "
" " large.....	38c "

Seeder Points—★

Solid Steel Blanks, 2 1/4 x 1/4 x 7 in	10c each.
Solid Steel, finished with 1 bolt.....	24c "
" " " 2 "	28c "
Soft Center Steel Blanks	22c "

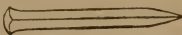
Mouldboards, Shaped and polished—★

For Turf and Stubble Plows.

Soft Center Steel.....	37c. per lb.
Crucible Steel.....	26c. "
Solid Cast Steel.....	23c. "

Double Shin add to list 2c. per lb.

ALL PRICES SUBJECT TO DISCOUNT.

Harrow Teeth—In 200 lb. kegs.Steel, $\frac{1}{2}$ and 9-16 in. square, plain \$5.00 per 100 lbs.Steel, $\frac{5}{8}$ in. square, plain 4.90 " "

Headed, extra 20c. per 100 lbs.

Diamond, $\frac{7}{8} \times \frac{5}{8}$ in. sheared points 4.60 " "Diamond, $\frac{7}{8} \times \frac{5}{8}$ in. hammered points . . . 5.00 " " $\frac{1}{2}$ in. square, plain, flat (dagger) points . . 5.10 " "

Car lots in bulk, special quotations.

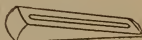
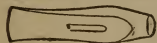
**Beetle Rings**—

4 to 6 inches in diameter 10c. per lb.

Wood Choppers' Wedges—

Steel, oil finished.

Common pattern 5½c. per lb.

**Wood Choppers' Wedges**—★

Steel, Truckee pattern flared

bit 36c. per lb.

Steel, Oregon Pattern, fan bit 36c.

Wood Choppers' Mauls—★

Oregon Pattern, 5 lbs.

and over 36c. per lb.

Straight pattern, 5 lbs.

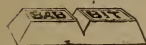
and over 36c. per lb.



Oregon.



Straight.

Babbit Metal—

No. 0, common 10c. per lb.

" 1, ordinary 13c. "

" A, medium 15c. "

" A1, extra 21c. "

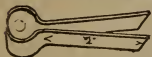
" AA, extra fine 36c. "

Special prices for quantities.

Felloe Oilers or Wheel Oiling**Troughs**, Cast Iron—

No. 1, 34 in. long, 5 in. wide, 6 in. deep \$1.25 each.

No. 2, 28½ in. long, 3 in. wide, 4 in. deep 65 "

**Spring Keys**—★

Flat. Nos. 16 and 17 Wire Gauge.

Price per 1,000.

In effect April 1st, 1896.

Length.	1¼	1½	1¾	2	2¼	2½	2¾	3	3¼	3½
Width.										
$\frac{3}{4}$ inch..	\$14.00	\$15.75	\$17.50	\$19.25	\$21.00	\$22.75	\$24.50	\$26.25		
$\frac{7}{8}$ " . .	21.00	22.75	24.50	26.25	28.00	29.75	31.50	33.25		
$\frac{1}{2}$ " . .			26.25	28.00	30.75	33.25	36.00	38.50	\$41.25	\$43.75
$\frac{3}{4}$ " . .				34.25	36.75	39.25	42.00	44.75	47.25	50.00

Lengths given are from point to neck, or under the eye.

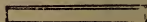
ALL PRICES SUBJECT TO DISCOUNT.

Spring Keys, Round—★

Price per 1000.



No. 000,	are No. 12	wire gauge	for	7-32	inch hole in	5/8 bolts	\$5 00
00,	12	12	7-32	1/4	1/4	1/4	5 50
0,	12	12	7-32	1/4	1/4	1/4	6 00
1,	11	11	7-32	1/4	1/4	1/4	6 50
1 1/2,	11	11	7-32	1/4	1/4	1/4	6 80
2,	10	10	9-32	1/4	1/4	1/4	7 00
3,	10	10	9-32	1/4	1/4	1/4	7 50
4,	10	10	9-32	1/4	1/4	1/4	8 00

Machine Keys—★

These Keys have a uniform taper of $\frac{1}{8}$ inch in 6 inches, and are free from hammer marks and scales. Special sizes made to order.

Sizes given in inches.		Prices per 100.	
$\frac{1}{4}$ x	$\frac{1}{8}$ x2 $\frac{1}{2}$	\$1.00	$\frac{1}{2}$ x7-16x5 \$6.00
$\frac{1}{4}$ x5-32	x2 $\frac{1}{2}$	1.15	$\frac{1}{2}$ x7-16x6 6.50
$\frac{1}{4}$ x	3-16x2 $\frac{1}{2}$	1.30	9-16x7-16x5 6.25
$\frac{1}{4}$ x	7-32x2 $\frac{1}{2}$	1.45	9-16x7-16x6 6.75
5-16x	3-16x3	1.80	9-16x7-16x7 7.25
5-16x	7-32x3	2.00	$\frac{5}{8}$ x $\frac{1}{2}$ x5 6.55
5-16x	$\frac{1}{4}$ x3	2.20	$\frac{5}{8}$ x $\frac{1}{2}$ x6 7.00
5-16x	9-32x3	2.40	$\frac{5}{8}$ x $\frac{1}{2}$ x6 $\frac{1}{2}$ 7.25
$\frac{3}{8}$ x	3-16x3	2.20	$\frac{5}{8}$ x $\frac{1}{2}$ x7 7.50
$\frac{3}{8}$ x	$\frac{1}{4}$ x3	2.50	$\frac{5}{8}$ x9-16x5 6.75
$\frac{3}{8}$ x	9-32x3	2.80	$\frac{5}{8}$ x9-16x6 7.25
$\frac{3}{8}$ x	5-16x3	2.90	$\frac{5}{8}$ x9-16x7 7.75
$\frac{3}{8}$ x	11-32x3	3.00	11-16x9-16x5 8.00
$\frac{3}{8}$ x	3-16x4	2.30	11-16x9-16x6 8.60
$\frac{3}{8}$ x	$\frac{1}{4}$ x4	2.90	11-16x9-16x7 9.20
$\frac{3}{8}$ x	9-32x4	3.25	11-16x9-16x8 9.80
$\frac{3}{8}$ x	5-16x4	3.40	$\frac{3}{4}$ x $\frac{5}{8}$ x7 12.00
$\frac{3}{8}$ x	11-32x4	3.70	$\frac{3}{4}$ x $\frac{5}{8}$ x8 12.75
$\frac{1}{2}$ x	$\frac{3}{8}$ x4	5.25	$\frac{3}{4}$ x $\frac{5}{8}$ x9 13.50
$\frac{1}{2}$ x	$\frac{3}{8}$ x4 $\frac{1}{2}$	5.50	$\frac{3}{4}$ x $\frac{5}{8}$ x10 14.25
$\frac{1}{2}$ x	$\frac{3}{8}$ x5	5.75	1 x $\frac{3}{4}$ x8 18.00
$\frac{1}{2}$ x	$\frac{3}{8}$ x6	6.25	1 x $\frac{3}{4}$ x10 22.00
$\frac{1}{2}$ x	7-16x4 $\frac{1}{2}$	5.75	

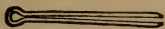
Above prices in lots of 100 only. No orders accepted for less than 25 keys. Additional charge for less than 100 keys.

Steel Figures and Letters—★

Hand Made.		Machine Made.		Steel	
Size of	Figures	Alphabet	Figures	Alphabet	Stamps
tace, in.	per Set.	per Set.	per Set.	per Set.	per letter.
1-16 to $\frac{1}{8}$	\$1.50	\$ 4.50	\$1.00	\$ 3.00	\$0.15
5-32	1.75	5.25	1.25	3.50	.18
3-16	2.00	6.00	1.25	4.00	.20
7-32	2.25	6.75	1.40	4.25	.25
$\frac{1}{4}$	2.50	7.50	1.50	4.50	.30
5-16	3.00	9.00	1.75	5.25	.35
$\frac{3}{8}$	3.50	10.50	2.50	7.50	.45
7-16	4.50	13.50	3.50	10.50	.55
$\frac{1}{2}$	5.00	15.00	4.50	13.50	.60

Stamps with hole for handle, 50c. per lb. extra. Larger than $\frac{1}{4}$ in. 50c. extra for forging. Add 25 per cent. on stamps of two or more lines, or stamps cut on curve.

ALL PRICES SUBJECT TO DISCOUNT.



Spring Cotters—★

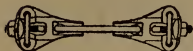
In effect April 1st, 1896.

[illegible]

Lengths given are from Point to Neck, or under the Eye

ALL PRICES SUBJECT TO DISCOUNT.

Tank Hoop Draw Lugs and Bolts—★



		Size of Bolt.	Price per set.	Weight.
1½	inch Lug with Single Bolt	7-16x 8	\$.30	.....
	(Special Light)			
1½	inch Lug with Single Bolt..	¾x10	.40	2 lbs
1¾	“ “ “ “ “ “	¾x10	.50	3 “
2	“ “ “ “ “ “	¾x10	.60	7 “
2½	“ “ “ “ “ “	¾x18	.80	9 “
3	“ “ “ “ “ “	¾x18	1.00	10 “
3½	“ “ “ “ “ “	¾x18	1.50	18 “
4	“ “ “ “ “ “	¾x18	2.00	22 “
4½	“ “ “ “ “ “	¾x22	2.50	25 “
5	“ “ “ “ “ “	¾x22	3.00	36 “
5½	“ “ “ “ “ “	¾x22	3.25	42 “
6	“ “ “ “ “ “	1¼x22	3.50	47 “

	Special and Extra Heavy Sizes.	Size of Bolt.	Price per set.
1½ inch Lug with Single Bolt.....		¾x14	\$0.68
2 " " " " " "		¾x18	.95
3 " " " " " "		¾x18	1.30
3½ " " " " " "		¾x18	1.50
3½ " " " " Double Bolt.....		¾x18	1.68



Lugs for Round Iron Hoops—★

For $\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$ in. hoop.
15c.	20c.	30c. each.

Tecktonius' Hoop Locks—Malleable Iron.★



1	in. Single bolt, 7-16x10 in., 1½ lbs. each	\$0.35
1½	in. " 7-16x13 in., 2 "	.40
1¾	in. " 7-16x13 in., 2¾ "	.50
2	in. " 7-16x14 in., 3½ "	.60
2½	in. " 7-16x16 in., 5 "	.80
3	in. " 7-16x18 in., 7½ "	1.00
3½	in. " 7-16x18 in., 9½ "	1.50
4	in. Double bolt, 7-16x18 in., 13½ "	2.00
4½	in. " 7-16x18 in., 15½ "	2.50
5	in. " 7-16x18 in., 19 "	3.00
5½	in. " 7-16x20 in., 22 "	3.25
6	in. " 7-16x20 in., 26 "	3.50

State thickness of iron to be used when ordering.

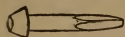
Round Iron Lugs—

For round iron hoops,



$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	1¼ inch.
\$10.00	12.00	18.00	28.00	32.00	64.00 per 100 count.

ALL PRICES SUBJECT TO DISCOUNT.

Wagon Box Nails, Cone Head, Chisel Point—

3-16 in.9c per lb.
 $\frac{1}{4}$ in.8c "

Wagon Box Rivets, Flat Heads—*

3-16 in., 1 to 3 in. long16c per lb.
 $\frac{1}{4}$ in., 1 to 4 in. long15½c "

**Section Rivets, Countersunk Heads—***

3-16 in.7-32 in. $\frac{1}{4} \times \frac{1}{2}$ in. and longer.
.161615½c per lb.

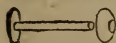


For prices of other sizes see page 46.

Sarven Wheel Rivets, Norway—*

For No. 3 Flange and smaller16c. per lb.
For Nos. 9 and 13 Flanges15½c. "

In ordering, specify the Flange No., or the exact size of spokes in wheel.

California Tire Rivets, with Burrs—

$\frac{1}{4}$ in., $1\frac{1}{4}$ to $2\frac{1}{2}$ in. long16½c. per lb.
5-16 in., $1\frac{1}{4}$ to $2\frac{1}{2}$ in. long16½c "

Riveting Burrs—*

$\frac{1}{4}$	3-16	Nos. 8	10
\$0.23	.28	.33	.35 per lb.

Coopers' Rivets—*

1 d.	2 d.	3, 4 & 5 d.	6 d.
16½c.	16c.	15½c.	15c. per lb.

Black Iron Rivets, in Papers and Bulk—*

In Papers of 1,000 Rivets each.
Black.
Price per Paper.

In Bulk.
Black.
Price per Pound.

Sizes.	Prices.	Sizes.	Prices.	Sizes.	Prices.	Sizes.	Prices.
8 ounce ...	\$0.20	8½ pound.	\$0.70	8 ounce ...	\$0.38	8½ pound.	\$0.19
10 " " " "	.22	4 " " "	.76	10 " " " "	.34	4 " " "	.18
12 " " " "	.24	5 " " "	.90	12 " " " "	.31	5 " " "	.17
14 " " " "	.26	6 " " "	1.08	14 " " " "	.29	6 " " "	.17
1 pound ...	.27	7 " " "	1.26	1 pound ...	.26	7 " " "	.17
1½ " " " "	.29	8 " " "	1.44	1½ " " " "	.23	8 " " "	.17
1¾ " " " "	.33	9 " " "	1.53	1¾ " " " "	.22	9 " " "	.16
2 " " " "	.37	10 " " "	1.75	2 " " " "	.21	10 " " "	.16
2½ " " " "	.42	12 " " "	1.98	2½ " " " "	.20	12 " " "	.15½
3 " " " "	.55	14 " " "	2.31	3 " " " "	.20	14 " " "	.15½
3½ " " " "	.60	16 " " "	2.64	3½ " " " "	.19	16 " " "	.15½

See weights of Iron Rivets, page 413.

ALL PRICES SUBJECT TO DISCOUNT.



Iron Rivets in Bulk—*

This table applies to Rivets with heads of all usual styles. The first column gives list prices on Rivets $\frac{1}{8}$ inch and longer.

Size.	Length of Rivets.													
	$\frac{1}{2}$	$\frac{15}{32}$	$\frac{7}{16}$	$\frac{13}{32}$	$\frac{3}{8}$	$\frac{11}{32}$	$\frac{5}{16}$	$\frac{9}{32}$	$\frac{1}{4}$	$\frac{7}{32}$	$\frac{3}{16}$	$\frac{5}{32}$	$\frac{3}{8}$	$\frac{1}{2}$
$\frac{7}{16}$	15													23
$\frac{3}{8}$	15	16												24
$\frac{11}{32}$	15	16												26
$\frac{9}{16}$	15 $\frac{1}{2}$	16 $\frac{1}{2}$												27
1	15 $\frac{1}{2}$	16 $\frac{1}{2}$	16 $\frac{1}{2}$	16 $\frac{1}{2}$	16 $\frac{1}{2}$	16 $\frac{1}{2}$								30
2	15 $\frac{1}{2}$	16 $\frac{1}{2}$	16 $\frac{1}{2}$	16 $\frac{1}{2}$	16 $\frac{1}{2}$	17	17							38
3	15 $\frac{1}{2}$	16	16 $\frac{1}{2}$	16 $\frac{1}{2}$	16 $\frac{1}{2}$	17	17	18	18	19	19	20	22	45
$\frac{1}{4}$	15 $\frac{1}{2}$	16	16 $\frac{1}{2}$	16 $\frac{1}{2}$	16 $\frac{1}{2}$	17	17	18	18	19	20	21	23	55
4	15 $\frac{1}{2}$	16	16 $\frac{1}{2}$	16 $\frac{1}{2}$	16 $\frac{1}{2}$	17	17	18	18	20	21	22	25	60
5	16	17	17	17	18	18	18	19	20	21	22	23	26	65
6	16	17	17	17	18	18	18	20	21	22	23	24	27	
$\frac{3}{16}$	16	17	17	17	18	18	18	20	21	22	23	24	27	
7	16 $\frac{1}{2}$	18	18	18	19	19	19	20	21	22	23	24	27	
8	17	18	19	19	20	20	20	21	22	23	24	25	27	
9	18	19	20	20	21	21	21	22	23	24	25	27	29	
10	19	20	21	22	23	25	27	28	28	30	33	35	37	
11	20	22	24	26	27	28	30	31	31	33	37	40	42	
12	21	24	26	28	29	30	32	34	35	36	41	45	50	
13	25	27	30	33	34	35	37	39	40	41	45	50	55	
14	27	30	35	38	40	45	50	52	55	58	58	60	63	

Rivets made from smaller wire than No. 14, all lengths, 70 cents per pound. Tinning 6 cents per pound extra.

Extras—Shoulder Rivets and Pointed Rivets, add 2 cents per pound to list.

Net Extras—Goods packed in 25 pound boxes, 15 cents per 100 pounds. In packages of 10 pounds and smaller, 25 cents per 100 pounds.

ALL PRICES SUBJECT TO DISCOUNT.

**HOT PRESSED SQUARE NUTS.****MANUFACTURERS' STANDARD SIZES.—★**

In effect February 1, 1899.

Short Diameter.	Thickness.	Hole.	Size of Bolt.	Price per 100 lbs., Blank.
$\frac{1}{2}$	$\frac{1}{4}$	$\frac{7}{32}$	$\frac{1}{4}$	\$13.00
$\frac{3}{8}$	$\frac{1}{8}$	$\frac{9}{32}$	$\frac{5}{16}$	11.50
$\frac{3}{4}$	$\frac{3}{8}$	$\frac{11}{32}$	$\frac{3}{8}$	10.00
$\frac{7}{8}$	$\frac{7}{16}$	$\frac{25}{64}$	$\frac{7}{16}$	9.20
1	$\frac{1}{2}$	$\frac{7}{16}$	$\frac{1}{2}$	8.70
$1\frac{1}{8}$	$\frac{9}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	8.60
$1\frac{1}{4}$	$\frac{3}{8}$	$\frac{9}{16}$	$\frac{5}{8}$	8.50
$1\frac{1}{2}$	$\frac{3}{4}$	$\frac{21}{32}$	$\frac{3}{4}$	8.40
$1\frac{3}{4}$	$\frac{7}{8}$	$\frac{25}{32}$	$\frac{7}{8}$	8.30
2	1	$\frac{7}{8}$	1	8.20
$2\frac{1}{4}$	$1\frac{1}{8}$	$\frac{31}{32}$	$1\frac{1}{8}$	8.20
$2\frac{1}{2}$	$1\frac{1}{4}$	$1\frac{3}{32}$	$1\frac{1}{4}$	8.30
$2\frac{3}{4}$	$1\frac{3}{8}$	$1\frac{3}{16}$	$1\frac{3}{8}$	8.50
3	$1\frac{1}{2}$	$1\frac{5}{16}$	$1\frac{1}{2}$	8.70
$3\frac{1}{4}$	$1\frac{5}{8}$	$1\frac{7}{16}$	$1\frac{5}{8}$	8.90
$3\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{9}{16}$	$1\frac{3}{4}$	9.20
$3\frac{3}{4}$	$1\frac{7}{8}$	$1\frac{11}{16}$	$1\frac{7}{8}$	9.40
4	2	$1\frac{3}{16}$	2	9.60
4	$2\frac{1}{8}$	$1\frac{7}{8}$	$2\frac{1}{8}$	9.70
$4\frac{1}{4}$	$2\frac{1}{4}$	2	$2\frac{1}{4}$	9.90
$4\frac{1}{2}$	$2\frac{3}{8}$	$2\frac{1}{8}$	$2\frac{3}{8}$	10.10
$4\frac{3}{4}$	$2\frac{1}{2}$	$2\frac{1}{4}$	$2\frac{1}{2}$	10.30
$4\frac{3}{4}$	$2\frac{3}{4}$	$2\frac{7}{16}$	$2\frac{3}{4}$	10.80
5	3	$2\frac{11}{16}$	3	11.30
$5\frac{1}{2}$	$3\frac{1}{4}$	$2\frac{15}{16}$	$3\frac{1}{4}$	12.00
6	$3\frac{1}{2}$	$3\frac{1}{8}$	$3\frac{1}{2}$	13.00

For less than keg lots (200 lbs.) of a size, add—

20 cents per cwt. for 100 lbs. or over.

50 " " " less than 100 lbs.

ALL PRICES SUBJECT TO DISCOUNT.



HOT PRESSED HEXAGON NUTS.

MANUFACTURERS' STANDARD SIZES.—★

In effect February 1, 1899.

Short Diameter.	Thickness.	Hole.	Size of Bolt.	Price per 100 lbs. Blank.
$\frac{1}{2}$	$\frac{1}{4}$	$\frac{7}{32}$	$\frac{1}{4}$	\$20.00
$\frac{5}{8}$	$\frac{5}{16}$	$\frac{9}{32}$	$\frac{5}{16}$	16.00
$\frac{3}{4}$	$\frac{3}{8}$	$\frac{11}{32}$	$\frac{3}{8}$	13.00
$\frac{7}{8}$	$\frac{7}{16}$	$\frac{25}{64}$	$\frac{7}{16}$	11.40
1	$\frac{1}{2}$	$\frac{7}{16}$	$\frac{1}{2}$	10.50
$1\frac{1}{8}$	$\frac{9}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	10.40
$1\frac{1}{4}$	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	10.10
$1\frac{3}{8}$	$\frac{3}{4}$	$\frac{21}{32}$	$\frac{3}{4}$	9.90
$1\frac{5}{8}$	$\frac{7}{8}$	$\frac{25}{32}$	$\frac{7}{8}$	9.80
$1\frac{3}{4}$	1	$\frac{7}{8}$	1	9.70
2	$1\frac{1}{4}$	$\frac{31}{32}$	$1\frac{1}{8}$	9.70
$2\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{3}{32}$	$1\frac{1}{4}$	9.80
$2\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{3}{16}$	$1\frac{3}{8}$	10.00
$2\frac{3}{4}$	$1\frac{5}{8}$	$1\frac{5}{16}$	$1\frac{1}{2}$	10.20
3	$1\frac{3}{4}$	$1\frac{7}{16}$	$1\frac{5}{8}$	10.40
$3\frac{1}{4}$	$1\frac{7}{8}$	$1\frac{9}{16}$	$1\frac{3}{4}$	10.70
$3\frac{1}{2}$	2	$1\frac{11}{16}$	$1\frac{7}{8}$	10.90
$3\frac{1}{2}$	2	$1\frac{13}{16}$	2	11.10
$3\frac{3}{4}$	$2\frac{1}{8}$	$1\frac{7}{8}$	$2\frac{1}{8}$	11.40
$3\frac{3}{4}$	$2\frac{1}{4}$	2	$2\frac{1}{4}$	11.60
4	$2\frac{3}{8}$	$2\frac{1}{8}$	$2\frac{3}{8}$	12.00
$4\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{1}{4}$	$2\frac{1}{2}$	12.30
$4\frac{1}{2}$	$2\frac{3}{4}$	$2\frac{7}{16}$	$2\frac{3}{4}$	13.00
$4\frac{3}{4}$	3	$2\frac{11}{16}$	3	13.50
5	$3\frac{1}{4}$	$2\frac{15}{16}$	$3\frac{1}{4}$	14.50
$5\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{1}{8}$	$3\frac{1}{2}$	15.50

For less than keg lots (200 lbs.) of a size, add—

20 cents per cwt. for 100 lbs. or over.

50 " " " less than 100 lbs.

ALL PRICES SUBJECT TO DISCOUNT.

HOT PRESSED SQUARE NUTS.

UNITED STATES STANDARD SIZES.—★

In effect February 1, 1899.

Short Diameter.	Thick-ness.	Hole.	Size of Bolt.	Price per 100 lbs.	
				Blank.	Tapped.
$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{16}$ scant	$\frac{1}{4}$	\$13.00	\$15.00
$\frac{3}{8}$	$\frac{5}{16}$	$\frac{1}{4}$ scant	$\frac{5}{16}$	12.00	13.50
$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$ scant	$\frac{3}{8}$	10.50	11.60
$\frac{5}{8}$	$\frac{7}{16}$	$\frac{3}{8}$ scant	$\frac{7}{16}$	10.00	10.90
$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$ scant	$\frac{1}{2}$	9.00	9.70
$\frac{7}{8}$	$\frac{9}{16}$	$\frac{3}{4}$ scant	$\frac{9}{16}$	9.00	9.60
$1\frac{1}{8}$	$\frac{5}{8}$	$\frac{1}{2}$ full	$\frac{5}{8}$	8.70	9.20
$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{5}{8}$ scant	$\frac{3}{4}$	8.50	8.90
$1\frac{3}{8}$	$\frac{7}{8}$	$\frac{3}{4}$ scant	$\frac{7}{8}$	8.40	8.80
$1\frac{1}{2}$	1	$\frac{7}{8}$ scant	1	8.20	8.60
$1\frac{3}{4}$	$1\frac{1}{8}$	$1\frac{1}{8}$ full	$1\frac{1}{8}$	8.20	8.60
2	$1\frac{1}{4}$	$1\frac{1}{4}$ full	$1\frac{1}{4}$	8.40	8.80
$2\frac{1}{8}$	$1\frac{3}{8}$	$1\frac{3}{8}$ full	$1\frac{3}{8}$	8.50	9.00
$2\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$ full	$1\frac{1}{2}$	8.80	9.40
$2\frac{3}{8}$	$1\frac{5}{8}$	$1\frac{5}{8}$ scant	$1\frac{5}{8}$	9.00	9.70
$2\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{1}{2}$ scant	$1\frac{3}{4}$	9.30	10.00
$2\frac{3}{4}$	$1\frac{7}{8}$	$1\frac{5}{8}$ scant	$1\frac{7}{8}$	9.50	10.30
$3\frac{1}{8}$	2	$1\frac{3}{4}$ scant	2	9.70	10.60
$3\frac{1}{4}$	$2\frac{1}{8}$	$1\frac{3}{4}$ scant	$2\frac{1}{8}$	10.00	11.00
$3\frac{1}{2}$	$2\frac{1}{4}$	$1\frac{3}{4}$ scant	$2\frac{1}{4}$	10.00	11.10
$3\frac{3}{8}$	$2\frac{3}{8}$	$2\frac{1}{8}$	$2\frac{3}{8}$	10.30	11.50
$3\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{8}$	$2\frac{1}{2}$	10.50	11.80
$4\frac{1}{4}$	$2\frac{3}{4}$	$2\frac{3}{8}$	$2\frac{3}{4}$	11.00	12.40
$4\frac{5}{8}$	3	$2\frac{5}{8}$	3	11.50	13.00

For less than keg lots (200 lbs.) of a size, add—

20 cents per cwt. for 100 lbs. or over.

50 " " " less than 100 lbs.

We carry Tapped Nuts, United States Standard only, and ask that our patrons recognize these as the only standard and adapt their work to correspond.

ALL PRICES SUBJECT TO DISCOUNT.

HOT PRESSED HEXAGON NUTS.

UNITED STATES STANDARD SIZES.—★

In effect February 1, 1899.

Short Diameter.	Thickness	Hole.	Size of Bolt.	Price per 100 Lbs.	
				Blank.	Tapped.
$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{16}$ scant	$\frac{1}{4}$	\$20.00	\$22.50
$\frac{19}{32}$	$\frac{5}{16}$	$\frac{1}{4}$ scant	$\frac{5}{16}$	18.00	20.00
$\frac{11}{16}$	$\frac{3}{8}$	$\frac{19}{64}$ scant	$\frac{3}{8}$	14.00	15.60
$\frac{25}{32}$	$\frac{7}{16}$	$\frac{11}{32}$ scant	$\frac{7}{16}$	13.00	14.30
$\frac{7}{8}$	$\frac{1}{2}$	$\frac{13}{32}$ scant	$\frac{1}{2}$	11.20	12.20
$\frac{31}{32}$	$\frac{9}{16}$	$\frac{23}{64}$ scant	$\frac{9}{16}$	11.20	12.10
$1\frac{1}{8}$	$\frac{5}{8}$	$\frac{1}{2}$ full	$\frac{5}{8}$	10.50	11.20
$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{5}{8}$ scant	$\frac{3}{4}$	10.00	10.60
$1\frac{7}{8}$	$\frac{7}{8}$	$\frac{47}{64}$ scant	$\frac{7}{8}$	9.90	10.50
$1\frac{5}{8}$	1	$\frac{27}{32}$ scant	1	9.70	10.30
$1\frac{3}{4}$	$1\frac{1}{8}$	$\frac{15}{16}$ full	$1\frac{1}{8}$	9.70	10.30
2	$1\frac{1}{4}$	$1\frac{1}{16}$ full	$1\frac{1}{4}$	9.90	10.50
$2\frac{3}{16}$	$1\frac{3}{8}$	$1\frac{5}{32}$ full	$1\frac{3}{8}$	10.00	10.70
$2\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{9}{16}$ full	$1\frac{1}{2}$	10.30	11.10
$2\frac{9}{16}$	$1\frac{5}{8}$	$1\frac{25}{64}$ scant	$1\frac{5}{8}$	10.50	11.40
$2\frac{3}{4}$	$1\frac{3}{4}$	$1\frac{1}{2}$ scant	$1\frac{3}{4}$	10.80	11.70
$2\frac{5}{8}$	$1\frac{7}{8}$	$1\frac{5}{8}$ scant	$1\frac{7}{8}$	11.00	12.00
$3\frac{1}{8}$	2	$1\frac{23}{32}$ scant	2	11.20	12.30
$3\frac{5}{8}$	$2\frac{1}{8}$	$1\frac{29}{32}$ scant	$2\frac{1}{8}$	11.70	12.90
$3\frac{1}{2}$	$2\frac{1}{4}$	$1\frac{31}{32}$ scant	$2\frac{1}{4}$	11.70	13.00
$3\frac{11}{16}$	$2\frac{3}{8}$	$2\frac{1}{16}$	$2\frac{3}{8}$	12.20	13.60
$3\frac{7}{8}$	$2\frac{1}{2}$	$2\frac{3}{16}$	$2\frac{1}{2}$	12.40	13.90
$4\frac{1}{4}$	$2\frac{3}{4}$	$2\frac{3}{4}$	$2\frac{3}{4}$	13.00	14.60
$4\frac{5}{8}$	3	$2\frac{5}{8}$	3	13.50	15.20

For less than keg lots (200 lbs.) of a size, add—

20 cents per cwt. for 100 lbs. or over.

50 " " " less than 100 lbs.

We carry Tapped Nuts, United States Standard only, and ask that our patrons recognize these as the only standard and adapt their work to correspond.

ALL PRICES SUBJECT TO DISCOUNT.

Narrow Gauge Hot Pressed Square Nuts—*

Manufacturers' Standard List.

AMENDED JANUARY 17, 1899, TO TAKE EFFECT FEBRUARY 1, 1899.

Short Diameter.	Thickness.	Hole.	Size of Bolt.	Price per 100 lbs.	
				Blank.	Tapped.
$\frac{13}{32}$	$\frac{3}{16}$	$\frac{5}{32}$	$\frac{3}{16}$	\$20 00	\$24 50
$\frac{1}{3}$	$\frac{7}{32}$	$\frac{3}{16}$	$\frac{1}{4}$	13 70	15 70
$\frac{9}{16}$	$\frac{9}{32}$	$\frac{9}{32}$	$\frac{5}{16}$	12 30	13 80
$\frac{11}{16}$	$\frac{3}{8}$	$\frac{21}{64}$	$\frac{3}{8}$	10 70	11 80
$\frac{25}{32}$	$\frac{7}{16}$	$\frac{25}{64}$	$\frac{7}{16}$	10 00	10 90
$\frac{3}{4}$	$\frac{1}{2}$	$\frac{7}{16}$	$\frac{1}{2}$	9 00	9 70
1	$\frac{9}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	8 70	9 30
$1\frac{1}{8}$	$\frac{5}{8}$	$\frac{9}{16}$	$\frac{5}{8}$	8 60	9 10
$1\frac{3}{8}$	$\frac{3}{4}$	$\frac{21}{32}$	$\frac{3}{4}$	8 40	8 80
$1\frac{5}{8}$	$\frac{7}{8}$	$\frac{25}{32}$	$\frac{7}{8}$	8 30	8 70
$1\frac{3}{4}$	1	$\frac{7}{8}$	1	8 30	8 70
2	$1\frac{1}{8}$	$\frac{31}{32}$	$1\frac{1}{8}$	8 30	8 70
$2\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{3}{32}$	$1\frac{1}{4}$	8 40	8 80
$2\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{3}{16}$	$1\frac{3}{8}$	8 50	9 00
$2\frac{3}{4}$	$1\frac{3}{4}$	$1\frac{5}{16}$	$1\frac{1}{2}$	8 80	9 40

Narrow Gauge Hot Pressed Hexagon Nuts—*

Manufacturers' Standard List.

AMENDED JANUARY 17, 1899, TO TAKE EFFECT FEBRUARY 1, 1899.

Short Diameter.	Thickness.	Hole.	Size of Bolt.	Price per 100 lbs.	
				Blank.	Tapped.
$\frac{11}{16}$	$\frac{3}{8}$	$\frac{21}{64}$	$\frac{3}{8}$	\$14 00	\$15 60
$\frac{25}{32}$	$\frac{7}{16}$	$\frac{25}{64}$	$\frac{7}{16}$	13 00	14 30
$\frac{3}{4}$	$\frac{1}{2}$	$\frac{7}{16}$	$\frac{1}{2}$	11 20	12 20
1	$\frac{9}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	10 50	11 40
$1\frac{1}{8}$	$\frac{5}{8}$	$\frac{9}{16}$	$\frac{5}{8}$	10 40	11 10
$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{21}{32}$	$\frac{3}{4}$	10 10	10 70
$1\frac{1}{2}$	$\frac{7}{8}$	$\frac{25}{32}$	$\frac{7}{8}$	9 90	10 50
$1\frac{5}{8}$	1	$\frac{7}{8}$	1	9 80	10 40
2	$1\frac{1}{8}$	$\frac{31}{32}$	$1\frac{1}{8}$	9 80	10 40
$2\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{3}{32}$	$1\frac{1}{4}$	9 90	0 50
$2\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{3}{16}$	$1\frac{3}{8}$	10 00	10 70
$2\frac{3}{4}$	$1\frac{3}{4}$	$1\frac{5}{16}$	$1\frac{1}{2}$	10 30	11 10

ALL PRICES SUBJECT TO DISCOUNT.

HEXAGON NUTS.—★

Finished, case-hardened and semi-finished.

Tapped V thread. U. S. Standard.

Adopted June 1, 1893.

Size of Bolt.	Short Diameter of Bolt.	Thickness.	Threads to inch.	Finished, Case-Hardened price each.	Semi-Finished, price each.
$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	20	\$0.06	\$0.02
5-16	19-32	5-16	18	.07	.02 $\frac{1}{2}$
$\frac{3}{8}$	11-16	$\frac{3}{8}$	16	.08	.03 $\frac{1}{4}$
7-16	25-32	7-16	14	.09	.03 $\frac{3}{4}$
$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	12 or 13	.10	.04
9-16	31-32	9-16	12	.12	.05
$\frac{5}{8}$	1 1-16	$\frac{5}{8}$	11	.15	.06
11-16	1 5-32	11-16	11	.20	.08 $\frac{1}{2}$
$\frac{3}{4}$	1 $\frac{1}{4}$	$\frac{3}{4}$	10	.20	.09 $\frac{1}{2}$
$\frac{7}{8}$	1 7-16	$\frac{7}{8}$	9	.25	
1	1 $\frac{5}{8}$	1	8	.35	
1 $\frac{1}{8}$	1 13-16	1 $\frac{1}{8}$	7	.45	
1 $\frac{1}{4}$	2	1 $\frac{1}{4}$	7	.60	
1 $\frac{3}{8}$	2 3-16	1 $\frac{3}{8}$	6	.75	
1 $\frac{1}{2}$	2 $\frac{3}{8}$	1 $\frac{1}{2}$	6	.95	
1 $\frac{5}{8}$	2 9-16	1 $\frac{5}{8}$	5 $\frac{1}{2}$	1.25	
1 $\frac{3}{4}$	2 $\frac{3}{4}$	1 $\frac{3}{4}$	5	1.55	
1 $\frac{7}{8}$	2 15-16	1 $\frac{7}{8}$	5	2.10	
2	3 $\frac{1}{8}$	2	4 $\frac{1}{2}$	2.75	

Finished Nuts.

Use regular list for Nuts thinner or smaller than standard.

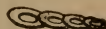
Use regular list for Finished Nuts, not Case-Hardened.

Polished Nuts, after Case-Hardening, add 30 per cent. to the list.
Finished Case-Hardened Hexagon Nuts, where the thickness is $\frac{1}{4}$ times diameter of bolt, add 25 per cent. to the list.Where the thickness is $\frac{1}{2}$ times diameter, add 50 per cent. to the list. Where the thickness is $\frac{3}{4}$ times diameter, add 75 per cent. to the list. Where the thickness is double the diameter, add 100 per cent. to the list.**Semi-Finished Nuts.**

Semi-Finished Nuts, Case-Hardened, add 20 per cent. to the list, and use the Double Chamfered list, if rounded or

Use regular list for Nuts thinner than standard.

ALL PRICES SUBJECT TO DISCOUNT

WASHERS.***Manufacturers' Standard List.**

Diam. in.	Size of Hole, in.	Thickness Wire Gauge	Size of Bolt.	Price per lb.	No. in 100 lbs.
9-16	$\frac{1}{4}$	No. 18	3-16 in.	14. c.	44,075
$\frac{3}{4}$	5-16	" 16	$\frac{1}{4}$ in.	12.2c.	13,900
$\frac{1}{2}$	$\frac{3}{8}$	" 16	5-16 in.	11.4c.	11,250
1	7-16	" 14	$\frac{3}{8}$ in.	10.5c.	5,450
$1\frac{1}{4}$	$\frac{1}{2}$	" 14	7-16 in.	9.7c.	2,600
$1\frac{3}{8}$	9-16	" 12	$\frac{1}{2}$ in.	9.20c.	2,000
$1\frac{1}{2}$	$\frac{5}{8}$	" 12	9-16 in.	9.10c.	1,700
$1\frac{3}{4}$	11-16	" 10	$\frac{5}{8}$ in.	9. c.	1,310
2	13-16	" 10	$\frac{3}{4}$ in.	8.80c.	1,001
$2\frac{1}{4}$	15-16	" 9	$\frac{7}{8}$ in.	8.80c.	860
$2\frac{1}{2}$	1 1-16	" 9	1 in.	8.80c.	625
$2\frac{3}{4}$	$1\frac{1}{4}$	" 9	$1\frac{1}{8}$ in.	8.80c.	520
3	$1\frac{3}{8}$	" 9	$1\frac{1}{4}$ in.	9. c.	400
$3\frac{1}{4}$	$1\frac{1}{2}$	" 8	$1\frac{3}{8}$ in.	9. c.	320
$3\frac{1}{2}$	$1\frac{5}{8}$	" 8	$1\frac{1}{2}$ in.	9.20c.	280
$3\frac{3}{4}$	$1\frac{3}{4}$	" 8	$1\frac{5}{8}$ in.	9.20c.	240
4	$1\frac{7}{8}$	" 8	$1\frac{3}{4}$ in.	9.50c.	220
$4\frac{1}{4}$	2	" 8	$1\frac{7}{8}$ in.	9.50c.	200
$4\frac{1}{2}$	$2\frac{1}{8}$	" 8	2 in.	9.50c.	175

Thin Steel Washers—*

In 1 lb. boxes.

For $\frac{1}{8}$	3-16	$\frac{1}{4}$	5-16	$\frac{3}{8}$ to $\frac{1}{2}$ in. bolt.
2,000	1,100	800	600	500 in a lb.
\$0.40	.35	.30	.25	.20 per lb.

Cast Washers—All sizes..... $3\frac{1}{2}$ c. per lb.**Sleigh Shoe Bolts—**

Take Refined Carriage Bolt List, page 54.

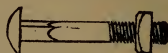
Cutter Shoe Bolts—

Take Norway Tire Bolt List, page 56.

ALL PRICES SUBJECT TO DISCOUNT.

Carriage Bolts, Refined—★

Manufacturers' Standard List.
 Adopted January 22nd, 1902, to take
 effect February 1st, 1902. Price per hundred.

**PRICE PER HUNDRED.**

Length.	3-16 & 1-4	5-16	3-8	7-16	1-2	9-16 & 5-8	3-4
1½	\$1 00	\$1 20	\$1 60	\$2 20	\$ 3 00	\$ 5 20	\$ 7 20
1¾	1 04	1 25	1 68	2 29	3 00	5 20	7 20
2	1 08	1 30	1 76	2 38	3 00	5 20	7 20
2½	1 12	1 35	1 84	2 47	3 00	5 20	7 20
2¾	1 16	1 40	1 92	2 56	3 00	5 20	7 20
2¾	1 20	1 45	2 00	2 65	3 11	5 37	7 43
3	1 24	1 50	2 08	2 74	3 22	5 54	7 66
3¼	1 28	1 55	2 16	2 83	3 33	5 71	7 89
3½	1 32	1 60	2 24	2 92	3 44	5 88	8 12
3¾	1 36	1 65	2 32	3 01	3 55	6 05	8 35
4	1 40	1 70	2 40	3 10	3 66	6 22	8 58
4¼	1 44	1 75	2 48	3 19	3 77	6 39	8 81
4½	1 48	1 80	2 56	3 28	3 88	6 56	9 04
4¾	1 52	1 85	2 64	3 37	3 99	6 73	9 27
5	1 56	1 90	2 72	3 46	4 10	6 90	9 50
5½	1 64	2 00	2 88	3 64	4 32	7 24	9 96
6	1 72	2 10	3 04	3 82	4 54	7 58	10 42
6½	1 80	2 20	3 20	4 00	4 76	7 92	10 88
7	1 88	2 30	3 36	4 18	4 98	8 26	11 34
7½	1 96	2 40	3 52	4 36	5 20	8 60	11 80
8	2 04	2 50	3 68	4 54	5 42	8 94	12 26
8½	2 12	2 60	3 84	4 72	5 64	9 28	12 72
9	2 20	2 70	4 00	4 90	5 86	9 62	13 18
9½	2 28	2 80	4 16	5 08	6 08	9 96	13 64
10	2 36	2 90	4 32	5 26	6 30	10 30	14 10
11	2 52	3 10	4 64	5 62	6 74	10 98	15 02
12	2 68	3 30	4 96	5 98	7 18	11 66	15 94
13	2 84	3 50	5 28	6 34	7 62	12 34	16 86
14	3 00	3 70	5 60	6 70	8 06	13 02	17 78
15	3 16	3 90	5 92	7 06	8 50	13 70	18 70
16	3 32	4 10	6 24	7 42	8 94	14 38	19 62
17	3 48	4 30	6 56	7 78	9 38	15 06	20 54
18	3 64	4 50	6 88	8 14	9 82	15 74	21 46
19	3 80	4 70	7 20	8 50	10 26	16 42	22 38
20	3 96	4 90	7 52	8 86	10 70	17 10	23 30

ALL PRICES SUBJECT TO DISCOUNT.

Carriage Bolts, Russell, Burdsell & Ward's, (New York)—★

Same List as Norway Carriage Bolts below.

Carriage Bolts, Norway. Standard List.★

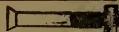
Price per hundred.

Length	$\frac{1}{8}$, 3-16, $\frac{1}{4}$.	5-16	$\frac{3}{8}$	7-16	$\frac{1}{2}$
1	\$3.00	\$4.00	\$5.40	\$7.30	\$9.50
1 $\frac{1}{4}$	3.10	4.00	5.40	7.30	9.50
1 $\frac{1}{2}$	3.20	4.00	5.40	7.30	9.50
1 $\frac{3}{4}$	3.30	4.00	5.40	7.50	9.80
2	3.40	4.10	5.40	7.70	10.10
2 $\frac{1}{4}$	3.50	4.20	5.60	7.90	10.35
2 $\frac{1}{2}$	3.60	4.40	5.80	8.15	10.65
2 $\frac{3}{4}$	3.70	4.50	6.00	8.35	10.90
3	3.80	4.70	6.20	8.55	11.20
3 $\frac{1}{4}$	3.90	4.90	6.50	8.75	11.50
3 $\frac{1}{2}$	4.00	5.00	6.70	8.95	11.75
3 $\frac{3}{4}$	4.10	5.20	6.90	9.15	12.00
4	4.20	5.30	7.10	9.40	12.30
4 $\frac{1}{4}$	4.35	5.50	7.30	9.60	12.60
4 $\frac{1}{2}$	4.50	5.70	7.50	9.80	12.90
4 $\frac{3}{4}$	4.65	5.85	7.70	10.00	13.15
5	4.80	6.00	7.90	10.25	13.45
5 $\frac{1}{2}$	5.10	6.30	8.40	10.65	14.00
6	5.40	6.60	8.80	11.05	14.55
6 $\frac{1}{2}$		7.00	9.30	11.50	15.10
7		7.30	9.70	11.85	15.70
7 $\frac{1}{2}$		7.60	10.10	12.35	16.25
8		7.90	10.50	12.75	16.80
8 $\frac{1}{2}$		8.20	10.90	13.15	17.35
9		8.50	11.40	13.60	17.90
9 $\frac{1}{2}$			11.90	14.00	18.50
10			12.40	14.45	19.00
10 $\frac{1}{2}$				14.85	19.60
11				15.25	20.15
11 $\frac{1}{2}$				15.70	20.70
12				16.15	21.30

$\frac{1}{8}$, 3-16 and $\frac{1}{4}$ in.. 100 in a package. 5-16 to $\frac{1}{2}$ x10 in., 50 in a package.

Eagle Carriage Bolts, Annealed Soft Steel, Full Square Turned Head. Same list as Norway Carriage Bolts above.

ALL PRICES SUBJECT TO DISCOUNT.

Tire Bolts, Refined—★

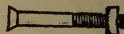
Standard List. Dec. 23, 1899. Price per hundred.

Length.	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$
1	\$0.60	\$0.60	\$0.95	\$1.40	\$2.20
1 $\frac{1}{4}$	.60	.60	.95	1.40	2.20
1 $\frac{1}{2}$	.60	.60	.95	1.40	2.20
1 $\frac{3}{4}$	.65	.65	1.00	1.40	2.20
2	.70	.70	1.05	1.47	2.20
2 $\frac{1}{4}$	.....	.75	1.10	1.54	2.30
2 $\frac{1}{2}$	.....	.80	1.15	1.61	2.40
2 $\frac{3}{4}$	.....	.85	1.20	1.68	2.50
3	.....	.90	1.25	1.75	2.60
3 $\frac{1}{4}$	.....	.95	1.30	1.82	2.70
3 $\frac{1}{2}$	.....	1.00	1.35	1.89	2.80
3 $\frac{3}{4}$	.....	1.05	1.40	1.96	2.90
4	.....	1.10	1.45	2.03	3.00
4 $\frac{1}{4}$	.....	.....	1.50	2.10	3.10
4 $\frac{1}{2}$	.....	.....	1.55	2.17	3.20
4 $\frac{3}{4}$	.....	.....	1.60	2.24	3.30
5	.....	.....	1.65	2.31	3.40
5 $\frac{1}{4}$	.....	.....	.....	2.38	3.50
5 $\frac{1}{2}$	.....	.....	.....	2.45	3.60
5 $\frac{3}{4}$	.....	.....	.....	2.52	3.70
6	.....	.....	.....	2.59	3.80

100 in a package. 1 $\frac{3}{4}$ and 2x3-16 packed also in wooden boxes containing 1000, nuts separate.

Tire Bolts, Norway ★ Standard List.

Price per hundred



1-8 and 3-16	1-4	5-16	3-8
Lengths.	Lengths.	Lengths.	Lengths.
1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2 $\frac{1}{4}$
1 $\frac{1}{2}$	1 $\frac{3}{4}$	2	2 $\frac{1}{2}$
1 $\frac{3}{4}$	2	2 $\frac{1}{4}$	2 $\frac{3}{4}$
2	2 $\frac{1}{4}$	2 $\frac{1}{2}$	3
2 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{3}{4}$	3 $\frac{1}{2}$
2 $\frac{1}{2}$	2 $\frac{3}{4}$	3	4
2 $\frac{3}{4}$	3	3 $\frac{1}{2}$	4 $\frac{1}{2}$
3	3 $\frac{1}{4}$	4	5
3 $\frac{1}{4}$	3 $\frac{1}{2}$	4 $\frac{1}{2}$	5 $\frac{1}{2}$
3 $\frac{1}{2}$	4	5	6

100 in a package.

Sleigh Shoe Bolts. Same as Refined Carriage Bolts.**Cutter Shoe Bolts.** Same as Norway Tire Bolts.

ALL PRICES SUBJECT TO DISCOUNT.

Stove Bolts. Standard List—★

In effect Dec. 23th, 1903.

Price per hundred.



FLAT HEAD.					ROUND HEAD.			
Length, inches.	Diam. 5-32 & 3-16 inch.	Diam. 7-32 & 1-4 inch.	Diam. 5-16 inch.	Diam. 3-8 inch.	Diam. 5-32 & 3-16 inch.	Diam. 7-32 & 1-4 inch.	Diam. 5-16 inch.	Diam. 3-8 inch.
3/8	\$0 75	\$0 90	\$1 30	\$2 50	\$0 85	\$1 00	\$1 55	\$2 65
1/2	75	90	1 30	2 50	85	1 00	1 55	2 65
5/8	75	90	1 30	2 50	85	1 00	1 55	2 65
3/4	75	90	1 30	2 50	85	1 00	1 55	2 65
7/8	80	95	1 35	2 55	90	1 05	1 60	2 70
1	80	95	1 40	2 60	90	1 05	1 65	2 75
1 1/8	85	1 00	1 45	2 65	95	1 10	1 70	2 80
1 1/4	85	1 00	1 50	2 70	95	1 10	1 75	2 85
1 3/8	90	1 05	1 60	2 80	1 00	1 15	1 80	2 90
1 1/2	90	1 05	1 70	2 90	1 00	1 15	1 85	2 95
1 3/4	95	1 10	1 80	3 00	1 05	1 20	1 95	3 05
2	1 00	1 15	1 90	3 10	1 10	1 25	2 05	3 20
2 1/4	1 05	1 20	2 00	3 20	1 15	1 30	2 15	3 35
2 1/2	1 10	1 25	2 10	3 30	1 20	1 35	2 25	3 50
2 3/4	1 15	1 30	2 20	3 40	1 25	1 40	2 35	3 65
3	1 20	1 35	2 30	3 50	1 30	1 45	2 45	3 80
3 1/4	1 25	1 40	2 40	3 60	1 35	1 50	2 55	3 95
3 1/2	1 30	1 45	2 50	3 70	1 40	1 55	2 65	4 10
3 3/4	1 35	1 50	2 60	3 80	1 45	1 60	2 75	4 25
4	1 40	1 55	2 70	3 90	1 50	1 65	2 85	4 40
4 1/4	1 45	1 60	2 80	4 05	1 55	1 70	2 95	4 55
4 1/2	1 50	1 65	2 90	4 20	1 60	1 75	3 05	4 70
4 3/4	1 55	1 70	3 00	4 35	1 65	1 80	3 15	4 85
5	1 60	1 75	3 10	4 50	1 70	1 85	3 25	5 00
5 1/4	1 65	1 80	3 20	4 65	1 75	1 90	3 35	5 15
5 1/2	1 70	1 85	3 30	4 80	1 80	1 95	3 45	5 30
5 3/4	1 75	1 90	3 40	4 95	1 85	2 00	3 55	5 45
6	1 80	1 95	3 50	5 10	1 90	2 05	3 65	5 60
6 1/4	1 85	2 00	3 60	5 25	1 95	2 10	3 75	5 75
6 1/2	1 90	2 05	3 70	5 40	2 00	2 15	3 85	5 90

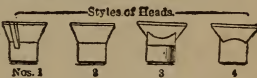
Plow Bolts.

Standard List. ★

Price per 100.

50 in a package.

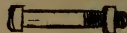
Plow Bolts—



Lengths	5-16	3/8	7-16	1/2	9-16	5/8
1 1/4 inches.	\$1 70	\$2 00	\$2 60	\$3 50	\$4 50	\$5 70
1 1/2 "	1 80	2 10	2 75	3 70	4 75	6 00
1 3/4 "	1 90	2 20	2 90	3 90	5 00	6 30
2 "	2 00	2 30	3 05	4 10	5 25	6 60
2 1/4 "	2 10	2 40	3 20	4 30	5 50	6 90
2 1/2 "	2 20	2 50	3 35	4 50	5 75	7 20
2 3/4 "	2 30	2 60	3 50	4 70	6 00	7 50
3 "	2 40	2 70	3 65	4 90	6 25	7 80
3 1/4 "	2 50	2 80	3 80	5 10	6 50	8 10
3 1/2 "	2 60	2 90	3 95	5 30	6 75	8 40
3 3/4 "	2 70	3 00	4 10	5 50	7 00	8 70
4 "	2 80	3 10	4 25	5 70	7 25	9 00

In ordering, mention by number the style of head wanted.

ALL PRICES SUBJECT TO DISCOUNT.

Machine Bolts—With Square Heads
and Square Nuts. Finished Points. *

Price per hundred.

In effect October 1st, 1893.

Length in Ins.	1/4	5-16	3/8	7-16	1/2	9-16 and 5/8	3/4	7/8	1	1 1/8	1 1/4
3/4 to 1 1/4	\$1.70	\$2.00	\$2.40	\$2.80	\$3.60	\$5.20	\$7.20	\$10.50	\$15.10	\$22.50	\$30.00
2	1.78	2.12	2.56	3.00	3.86	5.58	7.70	11.20	16.00	23.70	31.50
2 1/2	1.86	2.24	2.72	3.20	4.12	5.96	8.20	11.90	16.90	24.90	33.00
3	1.94	2.36	2.88	3.40	4.38	6.34	8.70	12.60	17.80	26.10	34.50
3 1/2	2.02	2.48	3.04	3.60	4.64	6.72	9.20	13.30	18.70	27.30	36.00
4	2.10	2.60	3.20	3.80	4.90	7.10	9.70	14.00	19.60	28.50	37.50
4 1/2	2.18	2.72	3.36	4.00	5.16	7.48	10.20	14.70	20.50	29.70	39.00
5	2.26	2.84	3.52	4.20	5.42	7.86	10.70	15.40	21.40	30.90	40.50
5 1/2	2.34	2.96	3.68	4.40	5.68	8.24	11.20	16.10	22.30	32.10	42.00
6	2.42	3.08	3.84	4.60	5.94	8.62	11.70	16.80	23.20	33.30	43.50
6 1/2	2.50	3.20	4.00	4.80	6.20	9.00	12.20	17.50	24.10	34.50	45.00
7	2.58	3.32	4.16	5.00	6.46	9.38	12.70	18.20	25.00	35.70	46.50
7 1/2	2.66	3.44	4.32	5.20	6.72	9.76	13.20	18.90	25.90	36.90	48.00
8	2.74	3.56	4.48	5.40	6.98	10.14	13.70	19.60	26.80	38.10	49.50
9	2.90	3.80	4.80	5.80	7.50	10.90	14.70	21.00	28.60	40.50	52.50
10	3.06	4.04	5.12	6.20	8.02	11.66	15.70	22.40	30.40	42.90	55.50
11	3.22	4.28	5.44	6.60	8.54	12.42	16.70	23.80	32.20	45.30	58.50
12	3.38	4.52	5.76	7.00	9.06	13.18	17.70	25.20	34.00	47.70	61.50
13	3.54	4.76	6.08	7.40	9.58	13.94	18.70	26.60	35.80	50.10	64.50
14	3.70	5.00	6.40	7.80	10.10	14.70	19.70	28.00	37.60	52.50	67.50
15	3.86	5.24	6.72	8.20	10.62	15.46	20.70	29.40	39.40	54.90	70.50
16	4.02	5.48	7.04	8.60	11.14	16.22	21.70	30.80	41.20	57.30	73.50
17	4.18	5.72	7.36	9.00	11.66	16.98	22.70	32.20	43.00	59.70	76.50
18	4.34	5.96	7.68	9.40	12.18	17.74	23.70	33.60	44.80	62.10	79.50
19	4.50	6.20	8.00	9.80	12.70	18.50	24.70	35.00	46.60	64.50	82.50
20	4.66	6.44	8.32	10.20	13.22	19.26	25.70	36.40	48.40	66.90	85.50
21	.....	.....	.....	.....	.....	.....	26.70	37.80	50.20	69.30	88.50
22	.....	.....	.....	.....	.....	.....	27.70	39.20	52.00	71.70	91.50
23	.....	.....	.....	.....	.....	.....	28.70	40.60	53.80	74.10	94.50
24	.....	.....	.....	.....	.....	.....	29.70	42.00	55.60	76.50	97.50
25	.....	.....	.....	.....	.....	.....	30.70	43.40	57.40	78.90	100.50
26	.....	.....	.....	.....	.....	.....	31.70	44.80	59.20	81.30	103.50
27	.....	.....	.....	.....	.....	.....	32.70	46.20	61.00	83.70	106.50
28	.....	.....	.....	.....	.....	.....	33.70	47.60	62.80	86.10	109.50
29	.....	.....	.....	.....	.....	.....	34.70	49.00	64.60	88.50	112.50
30	.....	.....	.....	.....	.....	.....	35.70	50.40	66.40	90.90	115.50

The following extras are to be understood as a part of this list:
 Bolts with Hexagon Heads or Hexagon Nuts, 10 per cent. extra.
 If both Hexagon Heads and Hexagon Nuts, 20 per cent. extra.
 Joint Bolts with Oblong Nuts, Bolts with Tee Heads, Askew
 Heads, and Eccentric Heads, 10 per cent. extra.

For prices of extra Nuts and extra lengths of thread, see stand-
 ard list, page 59.

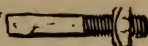
Special Bolts with irregular threads and unusual dimensions of
 heads or nuts will be charged extra at the discretion of the
 manufacturer.

ALL PRICES SUBJECT TO DISCOUNT.

Bolt Ends, Fitted with Square Nuts—*

In effect Oct. 1, 1899.

Price per pound.



Size of Iron, . .	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$
Length in ins.,	6	7	7	8	9	10	11	12	13
Price per lb. . .	20	18	16	14	12	10			

Size of Iron, . .	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	$1\frac{7}{8}$	2
Length in ins.,	14	15	16	17	18	19	20
Price per lb. . .	11			12			

With Hex. Nuts, 10 per ct. ext. Bolt ends ordered shorter than above Standard lengths in lots of 100 and over, will be charged at the price per 100 of Machine Bolts of same length, subject to same discount, in smaller lots extra.

Drift Bolts, Drift Spikes, Bridge Bolts, Rods, Washers, Caps and Plates, to order only.

Bridge and Roof Bolts—

Prices quoted upon receipt of specifications.

Bolts—*

Net prices for extra length of Threads and extra nuts on bolts.

Standard List.

Adopted Sept. 15, 1899, to take effect Oct. 1, 1899.

Size of Bolt	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Extreme Length of Thread in inches . .	$\frac{1}{4}$	$\frac{1}{2}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$2\frac{1}{4}$	$2\frac{3}{4}$	3
For each additional $\frac{1}{4}$ " of Thread, per 100 Bolts	\$0.02	\$0.02	\$0.02	\$0.03	\$0.04	\$0.06	\$0.08	\$0.10	\$0.13
For one extra Square Nut, per 100 Bolts . .	.25	.35	.45	.55	.65	.85	1.35	2.00	3.00
For one extra Hexagon Nut, per 100 Bolts . .	.35	.45	.55	.70	.85	1.15	1.75	2.50	3.60
For one Thumb or Wing Nut, in place of Hexagon or Square Nuts, per 100 Bolts	.25	.35	.50	.75	.75	...	...	...	...

ALL PRICES SUBJECT TO DISCOUNT.

Tap Bolts. Standard List. *Adopted Jan. 30, 1895, to take effect Feb. 14, 1895. Price per hundred.

Length.	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
1 $\frac{1}{2}$	\$1.00	\$1.15	\$1.35	\$1.60	\$2.00	\$3.00	\$4.20	\$6.00	\$8.00
1 $\frac{3}{4}$	1.05	1.21	1.42	1.69	2.10	3.12	4.35	6.20	8.25
2	1.10	1.27	1.49	1.78	2.20	3.24	4.50	6.40	8.50
2 $\frac{1}{4}$	1.15	1.33	1.56	1.87	2.30	3.36	4.65	6.60	8.75
2 $\frac{1}{2}$	1.20	1.39	1.63	1.96	2.40	3.48	4.80	6.80	9.00
2 $\frac{3}{4}$	1.25	1.45	1.70	2.05	2.50	3.60	4.95	7.00	9.25
3	1.30	1.51	1.77	2.14	2.60	3.72	5.10	7.20	9.50
3 $\frac{1}{4}$	...	1.57	1.84	2.23	2.70	3.84	5.25	7.40	9.75
3 $\frac{1}{2}$	...	...	1.91	2.32	2.80	3.96	5.40	7.60	10.00
3 $\frac{3}{4}$	...	...	...	2.41	2.90	4.08	5.55	7.80	10.25
4	...	...	...	...	3.00	4.20	5.70	8.00	10.50

With Hexagon, Tee and Eccentric Heads, 10 per cent. extra.

Planer Head Bolts—*



Price per 100 without Nuts. All 12 threads to the inch.				
Diameter of Screw	$\frac{1}{2}$	9-16	$\frac{5}{8}$	$\frac{3}{4}$ in.
" " Head	$\frac{7}{8}$	1	1 $\frac{1}{8}$	1 $\frac{1}{2}$ in.
Length of Head	5-16	5-16	$\frac{3}{8}$	7-16 in.
Under Head, 1 in. long..	\$10.00	.....	.....	.....
" " 1 $\frac{1}{4}$ in. " ..	10.50	\$12.00	\$13.30	\$17.00
" " 1 $\frac{1}{2}$ in. " ..	10.50	12.25	14.00	17.50
" " 1 $\frac{3}{4}$ in. " ..	.....	12.45	14.80	18.00
" " 2 in. " ..	.....	13.75	15.70	19.00
Finished Case-hardened				
Hex. Nuts for above...	10.00	12.00	15.00	18.00

Boiler Patch Bolts—*

Price per 100.



Turned and Threaded. $\frac{1}{2}$ in., 14 threads.				
All others 12 threads to the inch.				
Diameter	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$ 1 in.
Length from largest diam. to point.				
$\frac{3}{4}$ in.....	\$3.75	\$4.25	.....	.....
$\frac{7}{8}$ in.....	4.00	4.50	\$6.00	.....
1 in.....	4.25	4.80	6.50	\$9.50 \$13.50
1 $\frac{1}{8}$ in.....	4.50	5.10	6.80	9.85 14.00
1 $\frac{1}{4}$ in.....	4.75	5.50	7.25	10.25 14.75
1 $\frac{1}{2}$ in.....	5.25	6.50	8.25	11.25 16.25

ALL PRICES SUBJECT TO DISCOUNT.

Milled Iron Studs—★

Price per 100.

Diam.	$\frac{3}{8}$	7-16	$\frac{1}{2}$	9-16	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$
Length of Studs.										
$1\frac{1}{4}$	3 35	4 05	4 40	5 10						
$1\frac{1}{2}$	3 50	4 20	4 60	5 30	6 10					
$1\frac{3}{4}$	3 65	4 35	4 80	5 50	6 30					
2	3 80	4 50	5 00	5 70	6 50	8 80				
$2\frac{1}{4}$	3 95	4 65	5 20	5 90	6 70	9 10				
$2\frac{1}{2}$	4 10	4 80	5 40	6 10	6 90	9 40	12 00			
$2\frac{3}{4}$	4 25	4 95	5 60	6 30	7 10	9 70	12 50			
3	4 40	5 10	5 80	6 50	7 30	10 00	13 00	17 00	21 00	
$3\frac{1}{4}$		5 25	6 00	6 70	7 50	10 30	13 50	17 75	22 00	
$3\frac{1}{2}$		5 40	6 20	6 90	7 70	10 60	14 00	18 50	23 00	27 00
$3\frac{3}{4}$		5 55	6 40	7 10	7 90	10 90	14 50	19 25	24 00	28 00
4			6 60	7 30	8 10	11 20	15 00	20 00	25 00	29 00
$4\frac{1}{4}$			6 70	7 40	8 25	11 45	15 40	20 50	25 75	29 75
$4\frac{1}{2}$			6 80	7 50	8 40	11 65	15 75	21 00	26 50	30 50
$4\frac{3}{4}$				7 60	8 55	11 90	16 15	21 50	27 25	31 25
5				7 70	8 70	12 10	16 50	22 00	28 00	32 00
$5\frac{1}{4}$				7 80	8 85	12 35	16 90	22 50	28 75	32 75
$5\frac{1}{2}$					9 00	12 55	17 25	23 00	29 50	33 50
$5\frac{3}{4}$					9 15	12 80	17 65	23 50	30 25	34 25
6					9 30	13 00	18 00	24 00	31 00	35 00
Threads to inch.	16	14	12	12	11	10	9	8	7	7
Add for each $\frac{1}{2}$ in.	15	20	20	20	25	30	40	60	75	1 00

The list price of steel studs is one and a fourth times that of iron. Made to order only.

In ordering, give the length over all, the length of thread on the nut end, the length of thread on the tap end, and whether the tap end requires to be steam-tight or not.

All orders filled with V threads unless otherwise specified.

Turnbuckles—★

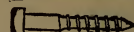
$\frac{3}{8}$	7-16	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$ in.
\$0.40	.42	.45	.50	.63	.75	.88	1.00 each
$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	$1\frac{7}{8}$		2 in.
\$1.25	1.38	1.50	1.75	2.00	2.25		2.65 each

Fitted with Eye and Hook, prices on application.

ALL PRICES SUBJECT TO DISCOUNT.

Coach or Lag & Skein Screws—★

With Square Heads. Gimlet Points.
Standard List. Price per hundred.



Adopted Sept. 20th, 1899, to take effect Oct. 1st, 1899.

Length, Inches.	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
1½	2.25	2.70	3.15	3.75	....	....	....	....
2	2.45	2.96	3.47	4.11	5.00	....	....	....
2½	2.65	3.22	3.79	4.47	5.50	7.90	....	....
3	2.85	3.48	4.11	4.83	6.00	8.60	12.50	....
3½	3.05	3.74	4.43	5.19	6.50	9.30	13.50	18.20
4	3.25	4.00	4.75	5.55	7.00	10.00	14.50	19.50
4½	3.45	4.26	5.07	5.91	7.50	10.70	15.50	20.80
5	3.65	4.52	5.39	6.27	8.00	11.40	16.50	22.10
5½	3.85	4.78	5.71	6.63	8.50	12.10	17.50	23.40
6	4.05	5.04	6.03	6.99	9.00	12.80	18.50	24.70
6½	....	....	6.35	7.35	9.50	13.50	19.50	26.00
7	....	....	6.67	7.71	10.00	14.20	20.50	27.30
7½	....	....	6.99	8.07	10.50	14.90	21.50	28.60
8	....	....	7.31	8.43	11.00	15.60	22.50	29.90
9	....	....	7.95	9.15	12.00	17.00	24.50	32.50
10	....	....	....	9.87	13.00	18.40	26.50	35.10
11	....	....	....	10.59	14.00	19.80	28.50	37.70
12	....	....	....	11.31	15.00	21.20	30.50	40.30

5-16 to ½x10 in. long. 50 in a package. Larger sizes in bulk.
Hexagon, Tee and Eccentric Heads, 10 per cent extra

ALL PRICES SUBJECT TO DISCOUNT.

Wood Screws—★ Flat Heads.

Round Heads, blued, same list. Price per gross in cents Standard List. In effect July 22, 1903.

No.	In.
0	Cts.
1	Cts.
2	Cts.
3	Cts.
4	Cts.
5	Cts.
6	Cts.
7	Cts.
8	Cts.
9	Cts.
10	Cts.
11	Cts.
12	Cts.
13	Cts.
14	Cts.
15	Cts.
16	Cts.
17	Cts.
18	Cts.
20	Cts.
22	Cts.
24	Cts.

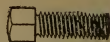
ALL PRICES SUBJECT TO DISCOUNT.



Iron Set Screws—★

Price per hundred.

Case hardened.

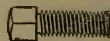


Diameter of Screw. .	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	
Threads to inch.....	20	18	16	14	12-13	12	11	10	9	8
Length under Head...										
$\frac{1}{4}$ inch.....	\$2 00	\$2 20	\$2 50	\$2 90	\$3 40	\$4 25	\$5 00			
1 ".....	2 15	2 35	2 65	3 10	3 60	4 25	5 00	\$7 00		
1 $\frac{1}{4}$ ".....	2 30	2 50	2 80	3 30	3 80	4 50	5 25	7 00	\$11 30	
1 $\frac{1}{2}$ ".....	2 45	2 65	2 95	3 50	4 00	4 75	5 50	7 50	11 30	\$14 90
1 $\frac{3}{4}$ ".....	2 60	2 80	3 10	3 70	4 20	5 00	5 75	8 00	12 00	15 96
2 ".....	2 80	3 00	3 30	3 95	4 45	5 30	6 05	8 60	12 90	17 00
2 $\frac{1}{4}$ ".....		3 25	3 55	4 25	4 75	5 65	6 40	9 30	13 80	18 40
2 $\frac{1}{2}$ ".....			3 85	4 60	5 10	6 05	6 80	10 00	14 80	19 80
2 $\frac{3}{4}$ ".....				5 00	5 50	6 50	7 25	10 80	15 90	21 40
3 ".....					5 95	7 00	7 75	11 70	17 10	23 00
Add for each $\frac{1}{4}$ in....	25	30	35	45	50	55	60	1 00	1 30	1 70

Above list applies to both cupped and oval points.

Steel Set Screws—★ Price per hundred.

Cupped and oval points.

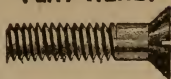
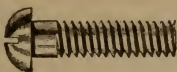


Diameter of Screw.	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$
Threads to inch.	20	18	16	14	12	12	11	10	9	8	7	7
Length Under Head to Extreme Point.	$\frac{3}{4}$	2 50	2 75	3 10	3 60	4 25	5 30	6 25	.....	.....	.....	.....
	1	2 65	2 90	3 30	3 90	4 50	5 30	6 25	8 75	.....	.....	.....
	$1\frac{1}{4}$	2 85	3 10	3 50	4 15	4 75	5 60	6 55	8 75	14 10	.....	.....
	$1\frac{1}{2}$	3 05	3 30	3 70	4 40	5 00	5 90	6 90	9 35	14 10	18 60	.....
	$1\frac{3}{4}$	3 25	3 50	3 90	4 65	5 25	6 25	7 25	10 00	15 00	19 80	24 40
	2	3 50	3 75	4 15	4 95	5 55	6 60	7 60	10 75	16 10	21 25	26 35
	$2\frac{1}{4}$	3 80	4 05	4 45	5 30	5 90	7 05	8 00	11 60	17 25	23 00	28 60
	$2\frac{1}{2}$	4 10	4 45	4 80	5 75	6 35	7 55	8 50	12 50	18 50	24 70	30 85
	$2\frac{3}{4}$	4 45	4 80	5 25	6 20	6 85	8 10	9 05	13 50	19 85	26 65	33 40
	3	4 75	5 20	5 70	6 75	7 45	8 75	9 70	14 60	21 35	28 75	36 00
	$3\frac{1}{4}$	.....	5 55	6 10	7 30	8 05	9 45	10 45	15 85	23 00	30 85	38 75
	$3\frac{1}{2}$	.....	.....	6 55	7 90	8 70	10 15	11 20	17 10	24 60	33 25	41 50
	$3\frac{3}{4}$	.....	.....	.....	8 50	9 35	10 85	11 95	18 35	26 25	35 15	44 30
	4	.....	.....	.....	.....	9 95	11 50	12 70	19 60	27 85	37 25	47 00
	$4\frac{1}{4}$	.....	.....	.....	.....	.....	12 20	13 45	20 85	29 50	39 40	49 75
	$4\frac{1}{2}$	.....	.....	.....	.....	.....	.....	14 20	22 10	31 00	41 50	52 50
$4\frac{3}{4}$	.....	.....	.....	.....	.....	.....	.....	23 40	32 75	43 60	55 25	
5	.....	.....	.....	.....	.....	.....	.....	.....	34 40	45 75	58 00	
Add for each $\frac{1}{4}$ inch.	35	40	50	60	70	80	90	1 30	1 75	2 30	3 00	3 75

ALL PRICES SUBJECT TO DISCOUNT.

IRON MACHINE SCREWS.★

ROUND HEAD. FLAT HEAD.



List January 1, 1898. Price per gross.

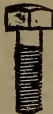
Diamtr About	Lengths										Threads to Inch.								
	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.									
5/16	2	3	4	5	6	7	8	9	10	12	14	16	18	20	22	24	26	28	30
3/16	25	25	25	29	29	35	35	43	43	59	74	95	110	125	145	170	200	245	300
1/4	25	25	25	29	29	35	35	46	46	66	81	100	115	135	165	190	225	270	330
5/16	27	27	27	31	31	38	38	46	46	69	84	104	120	140	170	200	240	290	360
3/8	27	27	27	31	31	38	38	49	49	74	90	110	125	145	175	210	255	310	375
7/16	29	29	29	33	33	41	41	49	49	74	90	110	125	145	175	210	255	310	375
1/2	33	33	33	36	36	46	46	54	54	81	100	115	135	165	190	225	270	330	400
9/16	33	33	33	36	36	46	46	54	54	81	100	115	135	165	190	225	270	330	400
5/8	37	37	37	42	42	52	52	63	63	88	110	130	155	180	210	245	290	345	420
3/4	48	48	48	55	55	70	70	85	85	100	120	140	165	190	220	255	300	360	435
7/8	55	55	55	60	60	72	72	85	85	115	135	155	180	210	240	275	320	385	465
1	60	60	60	70	70	85	85	105	105	125	145	165	185	210	250	300	360	435	525
1 1/4	85	85	85	105	105	135	135	155	155	180	200	220	250	300	360	430	510	600	735
1 1/2	105	105	105	135	135	160	160	180	180	205	225	255	290	345	410	485	570	665	800
1 3/4	135	135	135	160	160	180	180	200	200	230	250	280	310	365	435	500	585	690	830
2	160	160	160	180	180	200	200	220	220	250	270	300	330	385	455	525	615	725	875
2 1/4	180	180	180	200	200	220	220	240	240	270	290	320	350	405	475	545	635	750	895
2 1/2	200	200	200	220	220	240	240	260	260	290	310	340	370	425	495	565	655	775	925
2 3/4	220	220	220	240	240	260	260	280	280	310	330	360	390	445	515	585	675	795	945
3	240	240	240	260	260	280	280	300	300	330	350	380	410	465	535	605	695	815	965

Machine Screws differing from regular list are subject to
extra charge.

ALL PRICES SUBJECT TO DISCOUNT.

Cap Screws. Square Head—★

Price per hundred.



Diameter of Screw....	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1
Threads to inch.....	20	18	16	14	12-13	12	11	10	9	8
Length under head.										
$\frac{1}{4}$ inch.....	\$2 40	\$2 75	\$3 20	\$3 80	\$4 40	\$5 75	.....	.....	.....	.....
1 ".....	2 60	2 95	3 40	4 00	4 70	5 75	\$ 7 70	.....	.....	.....
1 $\frac{1}{4}$ ".....	2 75	3 10	3 65	4 20	4 95	6 05	7 70	\$10 50	.....	.....
1 $\frac{1}{2}$ ".....	2 90	3 30	3 85	4 45	5 25	6 35	8 25	10 50	\$14 00	.....
1 $\frac{3}{4}$ ".....	3 05	3 50	4 10	4 70	5 55	6 65	8 80	11 10	14 80	\$18 00
2 ".....	3 25	3 70	4 35	4 95	5 90	7 05	9 40	11 80	15 70	19 00
2 $\frac{1}{4}$ ".....	.....	4 00	4 65	5 25	6 30	7 55	10 10	12 60	16 70	20 20
2 $\frac{1}{2}$ ".....	.....	.....	5 40	5 60	6 75	8 15	10 90	13 50	17 60	21 50
2 $\frac{3}{4}$ ".....	.....	.....	.....	6 00	7 25	8 85	11 80	14 60	19 10	23 10
3 ".....	.....	.....	.....	.....	7 80	9 65	12 80	15 90	20 60	25 00
Add for each $\frac{1}{4}$ inch...	.25	.35	.45	.55	.65	.90	1 20	1 50	1 80	2 80

Cap Screws. Hexagon Head—★

Price per hundred.



Diameter of Screw....	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1
Threads to inch.....	20	18	16	14	12-13	12	11	10	9	8
Length under head.										
$\frac{1}{4}$ inch.....	\$3 00	\$3 25	\$3 75	\$4 40	\$5 50	\$7 00	.....	.....	.....	.....
1 ".....	8 25	3 50	4 00	4 70	5 70	7 00	\$ 9 50	.....	.....	.....
1 $\frac{1}{4}$ ".....	3 50	3 75	4 25	5 00	6 00	7 50	9 50	\$12 20	.....	.....
1 $\frac{1}{2}$ ".....	3 75	4 00	4 50	5 30	6 30	8 00	10 00	13 20	\$16 00	.....
1 $\frac{3}{4}$ ".....	4 00	4 25	4 75	5 60	6 60	8 50	10 60	13 80	16 60	\$21 20
2 ".....	4 25	4 60	5 05	5 95	7 00	9 10	11 20	13 40	17 20	22 80
2 $\frac{1}{4}$ ".....	.....	5 00	5 40	6 35	7 50	9 70	11 90	14 10	17 90	23 60
2 $\frac{1}{2}$ ".....	.....	.....	5 80	6 80	8 00	10 40	12 70	14 90	18 80	25 10
2 $\frac{3}{4}$ ".....	.....	.....	.....	7 30	8 60	11 20	13 60	15 90	20 00	26 00
3 ".....	.....	.....	.....	.....	9 80	13 10	14 70	17 00	21 80	29 00
Add for each $\frac{1}{4}$ inch...	.30	.40	.50	.60	.80	1 00	1 30	1 60	2 00	2 40

ALL PRICES SUBJECT TO DISCOUNT.

Locomotive Jack Screws—Wrought Screws.*

		Capacity.		For height over all add to height of stand.	
1 1/4 inch Screws.	10 Tons.	2 1/4 inches.			
1 1/2 " " " " " "	12 " " " " " "	2 1/2 " " " " " "			
1 3/4 " " " " " "	16 " " " " " "	2 3/4 " " " " " "			
2 " " " " " "	20 " " " " " "	3 1/4 " " " " " "			
2 1/4 " " " " " "	24 " " " " " "	3 3/4 " " " " " "			
2 1/2 " " " " " "	28 " " " " " "	4 " " " " " "			
3 " " " " " "	36 " " " " " "	4 1/2 " " " " " "			

Diameter of Screw.	Height of Stand.	Price.	Diameter of Screw.	Height of Stand.	Price.
1 1/4 in.	4 in.	\$2.90	2 in.	24 in.	\$13.50
1 1/4 "	6 "	3.10	2 1/4 "	6 "	7.00
1 1/4 "	8 "	3.40	2 1/4 "	8 "	7.50
1 1/4 "	10 "	3.80	2 1/4 "	10 "	8.25
1 1/4 "	12 "	4.20	2 1/4 "	12 "	9.00
1 1/4 "	14 "	4.60	2 1/4 "	14 "	10.00
1 1/2 "	4 "	3.25	2 1/4 "	16 "	11.00
1 1/2 "	5 "	3.50	2 1/4 "	18 "	12.00
1 1/2 "	6 "	3.75	2 1/4 "	20 "	13.25
1 1/2 "	8 "	4.25	2 1/4 "	22 "	14.50
1 1/2 "	10 "	4.75	2 1/4 "	24 "	15.75
1 1/2 "	12 "	5.25	2 1/2 "	6 "	7.75
1 1/2 "	14 "	6.00	2 1/2 "	6 1/2 "	8.00
1 1/2 "	16 "	6.75	2 1/2 "	8 "	8.75
1 3/4 "	6 "	4.50	2 1/2 "	10 "	9.75
1 3/4 "	8 "	5.00	2 1/2 "	12 "	10.75
1 3/4 "	10 "	5.75	2 1/2 "	14 "	12.00
1 3/4 "	12 "	6.25	2 1/2 "	16 "	13.25
1 3/4 "	14 "	6.75	2 1/2 "	18 "	14.50
1 3/4 "	16 "	7.50	2 1/2 "	20 "	15.75
1 3/4 "	18 "	8.50	2 1/2 "	22 "	17.00
2 "	5 "	5.00	2 1/2 "	24 "	18.25
2 "	6 "	5.25	2 1/2 "	28 "	22.00
2 "	8 "	6.00	2 1/2 "	32 "	26.00
2 "	10 "	6.75	3 "	14 "	19.50
2 "	12 "	7.50	3 "	16 "	20.75
2 "	14 "	8.25	3 "	18 "	22.00
2 "	16 "	9.25	3 "	20 "	23.25
2 "	18 "	10.25	3 "	22 "	24.50
2 "	20 "	11.50	3 "	24 "	25.75
2 "	22 "	12.50	3 "	30 "	30.00

Levers will be sent only when ordered, and will be charged
extra.

ALL PRICES SUBJECT TO DISCOUNT.



Cast Iron House Jack Screws—*

Diameter of Screws, 3 inch.

Height over all, 20 in.	\$3.50	each.
" " 22 "	3.75	"
" " 24 "	4.00	"
" " 26 "	4.25	"
" " 28 "	4.50	"
" " 30 "	4.75	"
" " 32 "	5.00	"
" " 34 "	5.25	"
" " 36 "	5.50	"

Glue—

Sheet Glue, "Clear Hide"	.27c.	per lb.
Brewster	.32c.	"

Special prices for barrel lots.

Glue Pots—*

Nos. 0	1	2	3
1 pint	1½ pints	1 quart	1½ quarts
\$0.50	.65	.70	.86 each.



Liquid Fish Glue—*

Le Page's half pint cans	\$3.25	per doz. cans.
" pint cans	5.50	" "
" quart cans	9.50	" "
" half gallon cans	16.00	" "
" gallon cans	30.00	" "

Flint (or Sand) Paper—*

IN SHEETS 9x11 INCHES.

Per Ream.

Nos.	000 to 1½	2	2½	3	3½	4
Prices	\$5.00	5.50	6.00	6.50	7.00	8.00
Second quality, Nos. 0 to 3 and assorted	\$4.25 per ream.					

IN ROLLS OF 50 YARDS.

Nos.	00 to 1½	2	2½	3	3½	4
24 in. wide...	\$5.50	6.00	6.50	7.00	8.00	9.00 per roll.
30 "	8.00	9.00	10.00	11.00	13.00	15.00 "
36 "	10.00	11.00	12.00	13.00	15.00	17.00 "
40 "	12.00	13.00	14.00	15.00	17.00	20.00 "
42 "	13.00	14.00	15.00	16.00	18.00	21.00 "
48 "	15.00	17.00	18.00	20.00	23.00	26.00 "

ALL PRICES SUBJECT TO DISCOUNT.

Flint Quartz—★

Grades the same as Flint Paper.....5 cents per pound.
 Packed in kegs of about 150 pounds and barrels of about 350
 pounds; used for making sanding belts.

Garnet Paper—★

IN SHEETS, 9x11 INCHES.

Nos.....	00	0	1½	1	1½	2	2½	3
Prices.....	\$5.50	5.50	5.50	5.50	5.50	6.00	6.50	7.00 per ream.

IN ROLLS OF 50 YARDS.

Nos.....	00 to 1½	2	2½	3	
24 in. wide.....	\$6.00	6.50	7.25	8.25	per roll.
30 " " " " " " " "	9.00	10.00	11.00	12.00	"
36 " " " " " " " "	11.00	12.00	13.00	14.00	"
40 " " " " " " " "	13.00	14.00	15.00	16.00	"
42 " " " " " " " "	15.00	16.00	17.00	18.00	"
48 " " " " " " " "	18.00	20.00	22.00	25.00	"

Sand Cloth—★

IN ROLLS OF 50 YARDS.

	Nos. 00 to 2	2½ to 3
14 inches wide.....	\$10.00	\$12.50 per roll.
24 " " " " " " " "	16.25	20.50 "
27 " " " " " " " "	18.50	25.50 "

Emery Paper—★

Nos.....	00 to 1½	2	2½	3	3½
Prices.....	\$7.00	8.00	10.00	12.00	14.00 per ream.

IN ROLLS OF 50 YARDS.

Nos.....	00 to 1½	2	2½	3	3½
24 inches wide...	\$7.50	9.00	11.00	13.00	15.00 per roll.

Emery Cloth—★

IN SHEETS 9x11 INCHES.

Nos.....	00 to 1½	2	2½	3	3½
Prices.....	\$20.00	22.00	26.00	28.00	30.00 per ream.

IN ROLLS OF 50 YARDS.

Nos.....	00 to 1½	2	2½	3	3½
9 in. wide.....	\$7.00	8.00	9.50	11.00	13.00 per roll.
18 " " " " " " " "	14.00	16.00	19.00	22.00	26.00 "
27 " " " " " " " "	21.00	24.00	28.50	33.00	39.00 "

Emery—"Tanite Mills."

In kegs of about 300 lbs., Nos. 4 to 46.....	5¼c. per lb.
" " " 300 " " 54 to 150.....	6¼c. "
" " " 300 " " Flour Emery.....	3¼c. "
Cases of ten 10 lb. cans, Nos. 4 to 46.....	9 c. per lb.
" " " 10 lb. " " 54 to 150.....	10 c. "
" " " 10 lb. " " Flour.....	6¼c. "
In 10 lb. tin cans, all Nos., single can.....	12 c. "

ALL PRICES SUBJECT TO DISCOUNT.

Canvas Polishing Wheels—★

These wheels are made of extra heavy cotton duck or canvas belting and take the same list prices whether glued solid throughout or the layers left partially loose.

For the solidly glued canvas wheel the combination of the material and the pliable cement gives a yielding surface, yet one that holds a square face.

The loose canvas wheel is made solid to within one to three inches (or more) from periphery, the result being that after coating with glue and emery, a yielding cushion is formed, easily adapting itself to any shape surface of metal to be polished.

Diam. in Inches.	Thickness in inches.						
	1	1½	2	2½	3	3½	4
6	\$1.00	\$1.25	\$1.50	\$1.75	.....	.....	.....
8	1.75	2.25	2.75	3.25	\$3.75	.....	.....
10	2.25	2.75	3.25	3.75	4.50	.....	.....
12	2.50	3.50	4.50	5.50	6.50	\$7.50	\$8.50
14	3.50	4.75	6.25	7.00	8.25	9.00	10.00
16	4.50	5.75	7.50	8.50	10.50	12.50	14.50
18	5.50	7.00	9.50	11.25	13.00	15.00	18.00
20	6.75	8.50	11.75	14.00	17.00	20.00	24.00

Canvas Polishing Wheels—

Furnished in sections about 1 in. thick, not
glued.....60c. per lb.

Paper Polishing Wheels—★

8x1	10x1½	10x2	12x2 inches.
\$1.00	\$1.75	\$2.25	\$2.70 each.

Leather Polishing Wheels—★

8x1	10x1½	10x2	12x2 inches.
\$2.00	\$4.15	\$5.50	\$7.00 each.

Felt Polishing Wheels—

8x1	10x1½	10x2	12x2 inches.
14 oz.	2½ lbs.	2½ lbs.	4½ lbs. \$2.20 per lb.

We can furnish any other size of Paper, Leather and Felt Polishing Wheels that may be wanted. Be particular to state diameter, thickness and size hole required.

ALL PRICES SUBJECT TO DISCOUNT.

EAGLE EMERY WHEELS.

EAGLE EMERY AND CORUNDUM WHEELS are made by what is known as *Water-Proof Scilicate* process. Nothing but the highest class of abrasives are used.

Scientifically compounded, any desired hardness can be obtained beyond a question and the possibility of duplicating any wheel only depends upon systematic record of orders.

The "Eagle Wheel" is made to fit any grinder made.

Made with Brass Web if desired. Made with hard sides when required, to keep the corners from rounding.

In ordering give all the information possible. Give DIAMETER, THICKNESS, HOLE, SHAPE OF FACE, SPEED RUN, METAL TO GRIND, HAND OR AUTOMATIC GRINDER. If your wheels are too soft, perhaps you are running them too slow. If too hard perhaps they are running above speed.

One grade of wheel will not grind all kinds of metal equally satisfactorily.

We guarantee satisfaction when conditions are understood and will cheerfully exchange any wheel not adapted to your work, for proper grade.

FOR CONVENIENCE ALL WHEELS ARE GRADED AS FOLLOWS:

NO. 1	SOFT
NO. 1½	"
NO. 2	MEDIUM
NO. 2½	"
NO. 3	HARD
NO. 3½	"

All the above are made for any purpose from any Number of Emery.

The factory has a record of every wheel made and can duplicate or vary as may be desired. Preserve the little linen tag for future reference.

ALL PRICES SUBJECT TO DISCOUNT.

Eagle Emery and Corundum Wheels—★ PRICE LIST OF SOLID EMERY AND CORUNDUM WHEELS.																
THICKNESS OF WHEELS IN INCHES.																
Diameter in Inches.	¾	¾	¾	1	1¼	1½	1¾	2	2¼	2½	2¾	3	3½	4	Revolutions Per Minute.	
1	25	30	35	40	45	50	55	60	65	70	75	80	90	1 00	18,000	
1 1½	30	35	40	45	50	55	60	65	70	75	80	85	90	1 10	14,000	
2	35	40	45	50	55	60	65	70	75	80	85	90	1 10	1 20	10,000	
2 ½	40	45	50	55	60	65	70	75	80	85	90	95	1 10	1 20	8,500	
3	45	50	55	60	65	70	75	80	85	90	95	1 00	1 15	2 05	7,000	
3 ½	50	55	60	65	70	75	80	85	90	95	1 00	1 05	1 15	2 05	6,035	
4	55	60	65	70	75	80	85	90	95	1 00	1 05	1 10	1 15	2 05	5,300	
4 ½	60	65	70	75	80	85	90	95	1 00	1 05	1 10	1 15	1 20	2 05	4,700	
5	65	70	75	80	85	90	95	1 00	1 05	1 10	1 15	1 20	1 25	2 05	4,200	
6	70	75	80	85	90	95	1 00	1 05	1 10	1 15	1 20	1 25	1 30	2 05	3,500	
7	75	80	85	90	95	1 00	1 05	1 10	1 15	1 20	1 25	1 30	1 35	2 05	3,000	
8	80	85	90	95	1 00	1 05	1 10	1 15	1 20	1 25	1 30	1 35	1 40	2 05	2,600	
9	85	90	95	1 00	1 05	1 10	1 15	1 20	1 25	1 30	1 35	1 40	1 45	2 05	2,300	
10	90	95	1 00	1 05	1 10	1 15	1 20	1 25	1 30	1 35	1 40	1 45	1 50	2 05	2,100	
12	1 00	1 05	1 10	1 15	1 20	1 25	1 30	1 35	1 40	1 45	1 50	1 55	2 00	2 50	1,750	
14	1 10	1 15	1 20	1 25	1 30	1 35	1 40	1 45	1 50	1 55	2 00	2 05	2 10	3 05	1,500	
16	1 20	1 25	1 30	1 35	1 40	1 45	1 50	1 55	2 00	2 05	2 10	2 15	2 20	3 05	1,300	
18	1 30	1 35	1 40	1 45	1 50	1 55	2 00	2 05	2 10	2 15	2 20	2 25	2 30	3 05	1,150	
20	1 40	1 45	1 50	1 55	2 00	2 05	2 10	2 15	2 20	2 25	2 30	2 35	2 40	3 05	1,050	
22	1 50	1 55	2 00	2 05	2 10	2 15	2 20	2 25	2 30	2 35	2 40	2 45	2 50	3 05	950	
24	2 00	2 05	2 10	2 15	2 20	2 25	2 30	2 35	2 40	2 45	2 50	2 55	3 00	3 05	850	
26	2 10	2 15	2 20	2 25	2 30	2 35	2 40	2 45	2 50	2 55	3 00	3 05	3 10	3 05	775	
30	2 30	2 35	2 40	2 45	2 50	2 55	3 00	3 05	3 10	3 15	3 20	3 25	3 30	3 05	705	
36	2 50	2 55	3 00	3 05	3 10	3 15	3 20	3 25	3 30	3 35	3 40	3 45	3 50	250 00	520	

ALL PRICES SUBJECT TO DISCOUNT.

Parties desiring to purchase Emery Wheels will please write for Discounts, giving Dimensions of Wheel and its use

1-4 TO 1-2 LESS SPEED FOR COOL TOOL GRINDING.

DISCOUNT.

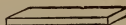
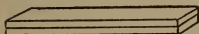
PER CENT

Eagle Emery Goods—★

All made from pure emery.



	Per dozen.
No. 005, Knife Sharpeners, 12 in. without guards.....	\$1 88
No. 05, Knife Sharpeners, 12 in. with guards, in boxes of one dozen each.....	2 00
No. 5, Knife Sharpeners, 12½ in. without guards.....	2 50
No. 6, Knife Sharpeners, 14 in. without guards.....	3 00



	Per dozen.
No. 001, Carpenters' Oil Stones, 2 grits, 8x2½ x 1 in.....	\$12 00
No. 01, Carpenters' Oil Stones, 2 grits, 8x1½ x 1 in.....	10 00
No. 1, Carpenters' Oil Stones, 2 grits, 7x2 x 1 in.....	9 00
No. 2, Carpenter's Oil Stones, 2 grits, 6x2x¾ in.....	7 00



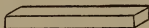
	Per dozen.
No. 03, Axe Stones, 3x2x½ in.....	\$3 00
No. 3, Axe Stones, 3x3x½ in.....	4 00



	Per dozen.
No. 4 Gouge Slips, 5x2x½ to 1-16 in.	\$4 00



	Per dozen.
No. 07, Eagle Pocket Hone, in leather case	\$5 00



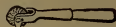
	Per dozen.
No. 10, Razor Hones, 6x2x½ in ...	\$12 00

	Per dozen.
No. 7, Knife Slips, 4x1½x½ in	4 00
No. 008, Blacksmith's Knife Stone, half oval, 8x1½ in., steel rod in center.....	4 00
No. 08, Scythe Stones, 10x1¼ in., steel rod in center.....	2 40
No. 8, Scythe Stones, 12x1¼x½ in., steel rod in center.....	5 00

ALL PRICES SUBJECT TO DISCOUNT.

Emery Wheel Dressers—

Huntington's.....\$ 0.80 each.
Extra Cutters for Huntington's.....per set, 12c.



Grindstones, for Plow or Heavy Work—

For Wet and Dry Grinding.....
 { under 40 lbs..\$42.00 per ton.
 { 40 to 200 lbs... 40.00 "
 { over 200 lbs... 50.00 "

Bi-Treadle Grindstones—

With ball-bearings, malleable iron fixtures, strong steel frame, with seat.... \$6.70
Weight, 80 lbs.



Ohio Mounted Grindstones—

With Crank and Treadle.
Malleable Iron Fixtures.

No. 1. Stone100 to 110 lbs..... \$5.70 each.
 " 2. "70 to 80 " 5.30 "
 " 3. "40 to 50 " 5.00 "



With ball-bearings, 50c. extra.



Auto Bi-Treadle Grindstones—

With Ball-bearings.

Malleable iron fixtures. Strong wooden frame.

No. 1. Stone, 100 to 110 lbs.....\$6.30
 " 2. " 70 to 80 " 5.90
 " 3. " 40 to 50 " 5.60

Hercules Grindstones—Mounted Extra Strong—

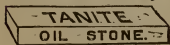
Made of oak, oiled and varnished, with crank and treadle, water trough and clothes protector. For heavy work.

No.	Size, in.	Wt., lbs.	Each.	No.	Size, in.	Wt., lbs.	Each.
1	24x2	80	\$11.00	6	30x2	125	\$13.60
2	24x3	120	12.75	7	30x3	185	15.30
3	26x2½	115	12.75	8	32x2½	180	14.90
4	26x3	140	13.20	9	34x2	160	14.90
5	28x3	165	14.00	10	34x3	240	17.85

Grindstone Fixtures, Ordinary Style—

Shafts..... 15 17 19 21 24 in. long.
Prices.....\$6.00 \$6.30 \$7.10 \$8.50 \$10.00 per doz.
Extra Cranks..... 2.00 "

Tanite Emery Oil Stones—★



The Tanite Co.'s Solid Emery Oil Stone is superior to any natural stone.

Fine, Extra fine, Coarse....\$5.00 per doz.

Tanite Emery Knife Sharpeners—★



Price.....\$1.20 per doz.

ALL PRICES SUBJECT TO DISCOUNT.

File Brushes*....\$4.50 per dozen.
File Cards*..... 1.50 "
File Handles*.... .40 "



Horse Rasps—



See List Prices on page 78.

Per dozen.

Heller Bros. Co.....	.....
"S. D. K." .....	.....
Chelsea.....	.....
Milwaukee.....	.....
Superior.....	.....

S. D. K. Slim Horse Rasps—

18-inch long Slim.....\$7.50 per dozen.

Tanged Horse Rasps—

See List Prices on page 78.

Rasp Handles—*

Per doz.
 For hot filing....\$6.00



FILES



Standard Lists on pages 76 and 77.

EXTRAS (GENERAL) ON FILES.

Last Makers' Rasps, one inch advance on Cabinet Rasp.

Sizes below 4 inches, not extended. take 4 inch price.

Half inches not specified, take next higher full inch price.

Dead Smooth, double the price of Bastard Cut.

One Round Edge, advance $12\frac{1}{2}$ per cent.

All lengths above those listed advance 20 per cent. on next lower inch price.

Blunt Files not specified, advance one inch on respective kinds and cuts.

Single or Float Cut not specified, on regular shapes take Double Cut price.

Equalings (Bellied), advance two inches on respective kinds and cuts.

Two Round Edges, advance 25 per cent.

Cuts not specified made upon regular blanks, advance one inch on respective kinds and nearest cut.

Irregular Goods. All lengths above those listed, and files varying from standard sizes, to be classed as irregular and subject to special prices.

ALL PRICES SUBJECT TO DISCOUNT.

★ STANDARD LIST OF FILES.

Adopted by the File Manufacturers' Association of the United States, November 1st, 1899.

76

BILL AND ROUND.			FLAT.		SQUARE.		HAND AND PILLAR.		INCH.	H.L.F. R.D. & THREE SO.			WARDING.		
INCH.	Bastard	2d Cut	Smooth	Bastard	2d Cut	Smooth	Bastard	2d Cut		Bastard	2d Cut	Smooth	Bastard	2d Cut	Smooth
4	3.00	3.50	3.90	3.70	4.30	4.70	3.80	4.60	4	4.80	5.60	6.10	4.00	4.80	5.40
5	3.20	3.80	4.10	4.10	4.80	5.30	4.10	4.80	5	5.40	6.10	6.40	4.50	5.30	5.80
6	3.50	4.00	4.50	4.60	5.10	5.80	4.60	5.10	6	6.10	6.70	7.10	4.90	5.90	6.40
7	3.90	4.60	4.90	5.10	5.80	6.30	5.10	5.80	7	7.00	7.70	8.20	5.90	6.90	7.50
8	4.30	4.90	5.40	5.50	6.30	7.00	5.50	6.30	8	7.50	8.30	8.90	6.40	7.50	8.20
9	4.90	5.80	6.30	6.60	7.70	8.30	6.60	7.70	9	8.50	9.40	9.90	7.80	9.00	9.90
10	5.60	6.40	7.00	7.40	8.50	9.10	7.40	8.50	10	9.10	10.10	10.70	8.70	10.10	11.00
11	6.70	7.80	8.50	9.10	10.40	11.80	9.10	10.40	11	10.70	11.80	12.70	10.90	12.70	13.70
12	7.50	8.60	9.40	10.20	11.50	12.80	10.20	11.50	12	11.80	13.00	13.90	12.30	14.30	15.40
13	9.40	10.70	11.70	12.50	14.30	15.40	12.50	14.30	13	14.10	15.40	16.60	15.20	17.40	18.70
14	10.70	12.20	13.10	13.90	16.10	17.50	13.90	16.10	14	15.50	17.00	18.30	17.00	19.40	21.00
15	13.10	15.00	16.10	16.00	19.20	20.90	16.90	19.20	15	18.50	20.40	21.70			
16	14.70	16.80	17.90	18.70	21.20	23.30	18.70	21.20	16	20.60	22.50	24.20			
17	18.20	20.20	21.70	21.50	24.20	27.50	22.50	25.40	17	24.70	27.00	28.90			
18	20.20	22.70	24.30	23.90	28.20	30.40	25.10	28.20	18	27.50	29.90	32.00			
19	24.60	27.50	29.40	28.40	33.20	35.70	29.70	33.20	19	32.80	35.70	38.10			
20	27.40	30.70	32.90	31.50	36.70	39.30	32.80	36.70	20	36.20	39.40	42.80			
Mill Blunt.			Cant (Blunt)		Square Blunt,		Slotting (Blt),		Ginsaw, take						
Dbl. Cut. adv. 2 in.			Dbl. Cut, ad-		advance 1 in		adv. 2 in.		Bastard price.						
Mill Dbl. Cut. " 1 "			vance 2 in.				Cotter Blunt		Crossing, adv. 2 in.						
Mill Narrow Point.							or Taper		" 2 "						
							adv 2 in.		Feather Edge (Blunt)						
									adv. 2 in.						
									High Back						
									" 2 "						
									Half Round						

Stavesaw.

8 inch \$9.40

Stavesaw

Improved.

6 inch, \$6.40

7 " 7.40

8 " 8.10

9 " 9.70

10 " 10.70

12 " 15.40

See General Extras, page 75.

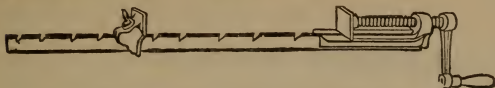
ALL PRICES SUBJECT TO DISCOUNT.

*** STANDARD LIST OF FILES—Continued.**
Adopted by the File Manufacturers' Association of the United States, November 1st, 1892.

INCH	MILL. ONE ROUND EDGE			MILL. TWO ROUND EDGES			INCH	TAPERS		SLIM TAPERS		BANDSAW BLUNT & TAPER		INCH	PIT SAW	CANT SAW	CROSS CUT	HOOK TOOTH	Planer Knife	Insert'd Tooth Or Chisel Tooth																																			
	Bastard	2d Cut	Smooth	Bastard	2d Cut	Smooth		Single Cut	Double Cut	Single Cut	Double Cut	Regular	Slim								Single Cut	Single Cut	Single Cut	Single Cut	Single Cut																														
4	3.40	3.96	4.40	3.80	4.40	4.90	3	2.10	2.50	2.10	2.50	2.50	2.50	4	4.80	4.30	4.80	....	....	....																																			
5	3.60	4.30	4.60	4.00	4.80	5.10	3½	2.10	2.50	2.10	2.50	2.50	2.50	5	5.40	4.70	5.40	....	....	....																																			
6	3.90	4.50	5.10	4.40	5.00	5.60	4	2.20	2.90	2.20	2.60	2.90	2.60	6	6.10	5.40	6.10	6.70	....	....																																			
7	4.40	5.20	5.50	4.90	5.80	6.10	4½	2.40	3.10	2.30	3.00	3.10	3.00	7	7.00	6.10	7.00	7.70	....	....																																			
8	4.80	5.50	6.10	5.40	6.10	6.80	5	2.60	3.50	2.50	3.20	3.50	3.20	8	7.50	6.40	7.50	8.30	6.40	8.30																																			
9	5.50	6.50	7.10	6.10	7.80	7.90	5½	3.00	4.00	2.90	3.50	4.00	3.50	9	8.50	7.80	8.50	9.40	8.30	9.40																																			
10	6.30	7.20	7.90	7.00	8.00	8.80	6	3.40	4.70	3.10	3.90	4.70	3.90	10	9.10	8.70	9.10	10.10	8.60	10.10																																			
11	7.50	8.80	9.60	8.40	9.80	10.60	6½	4.30	5.60	3.80	4.50	5.60	4.50	11	10.70	10.40	10.70	11.80	10.10	11.80																																			
12	8.40	9.70	10.60	9.40	10.80	11.80	7	4.30	5.60	4.50	5.30	6.70	5.30	12	11.80	11.40	11.80	13.00	12.10	13.00																																			
13	10.60	12.00	13.20	11.80	13.40	14.60	8	5.40	6.70	4.50	5.30	6.70	5.30																																										
14	12.00	13.70	14.70	13.40	15.30	16.40	9	6.60	8.10	5.40	6.30	8.10	6.30																																										
15	14.70	16.90	18.10	16.40	18.80	20.10	10	8.10	9.70	6.40	7.50	9.70	7.50																																										
16	16.50	18.90	20.10	18.40	21.00	22.40	11	10.70	12.10	8.30	9.10	12.10	9.10																																										
17	20.50	22.70	24.40	22.80	25.30	27.10	12	12.50	14.70	9.50	11.00	14.70	11.00																																										
18	22.70	25.50	27.30	25.30	28.40	30.40	13	15.90	17.50	12.10	13.10	17.50	13.10																																										
							14	18.40	20.60	13.80	15.40	20.60	15.40																																										
INCH.								4				5				6				7				8				9				10				11				12				13				14							
KNIFE.—BASTARD								5.40				6.10				6.90				7.80				8.50				9.40				10.10				12.20				13.70				15.20				16.30				18.20			
2nd CUT								6.10				6.70				7.50				8.50				9.10				10.60				11.50				13.70				15.20				17.90				19.90							
SMOOTH								6.40				7.10				7.90				8.90				9.50				11.30				12.30				14.60				16.10				19.20				21.20							

ALL PRICES SUBJECT TO DISCOUNT.

See General Extras page 75.

New Adjustable Clamps—★

Light pattern, $1\frac{1}{2} \times \frac{1}{4}$ inch steel bar, wrought screw.			
Opening	$2\frac{1}{2}$ feet,	japanned.....	\$3.75 per pair.
"	3	"	4.00 "
"	4	"	4.50 "
"	5	"	5.00 "

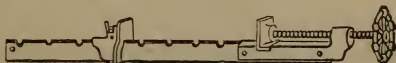
Heavy pattern, $1\frac{3}{4} \times \frac{3}{8}$ inch steel bar, wrought screw.			
Opening	5 feet,	japanned.....	\$ 7.50 per pair.
"	6	"	8.50 "
"	7	"	9.50 "
"	8	"	11.00 "
"	9	"	12.50 "
"	10	"	14.00 "

Perfection Clamps—★

Light pattern, $1\frac{1}{2} \times \frac{1}{4}$ inch steel bar, wrought screw.			
Opening	$2\frac{1}{2}$ feet,	not japanned.....	\$3.75 per pair.
"	3	"	4.00 "
"	4	"	4.50 "
"	5	"	5.00 "

Heavy pattern, $1\frac{3}{4} \times \frac{3}{8}$ inch steel bar, wrought screw.			
Opening	5 feet,	not japanned.....	\$ 7.50 per pair.
"	6	"	8.50 "
"	7	"	9.50 "
"	8	"	11.00 "
"	9	"	12.50 "
"	10	"	14.00 "

In ordering any of above be particular to say whether light or heavy patterns and which style.

Joiners' Clamps—★

$1\frac{1}{8} \times 3$ -16 inch steel bar, wrought screw.			
Opening	1 foot.....		\$2.70 per pair.
"	$1\frac{1}{2}$ feet.....		2.85 "
"	2 ".....		3.00 "

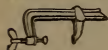
ALL PRICES SUBJECT TO DISCOUNT.

Eagle Iron Clamps—★

2½ 3 4 5 6 7 8 10 12 in. opening.
 \$2.60 3.00 4.20 5.00 6.50 7.80 9.00 11.00 13.50 per doz.

**Mole's Adjustable Iron Clamps—★**

3 5 6 8 10 12 in. opening.
 \$4.00 6.50 7.75 9.00 10.50 15.00 per dozen.

**Lang's Tire Bolt Wrenches—**

For old and new work.
 For 3-16, ¼, 5-16, and ¾
 nuts.\$1.50

**Tire Bolt Wrench and Clamp—★**

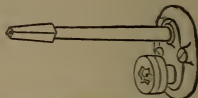
Byrnes' \$3.00 each

**Reynold's Tire Bolter and Cutters—★**

A tire bolter, wrench and cutter
 combined.\$6.00

**Rim Wrenches—★**

Lightning.\$1.50 each.

**Little Giant Brace Wrenches—★**

Set of 5 for ¼, 5-16, ¾, 7-16 and
 ½-in. bolts for square or hexagon
 nuts.\$0.50 per set.

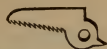
**Adjustable Tap and Reamer Wrenches—★**

No. 0,	7 in.	long, for	1-16 to ¼ in. taps	\$1.50 each.
" 5,	10½ "	" " "	3-16 to ½ "	 2.00 "
" 6,	15 "	" " "	¼ to ¾ "	 2.50 "
" 7,	20 "	" " "	¾ to 1 "	 3.50 "
" 8,	42 "	" " "	¾ to 1½ "	 7.00 "

ALL PRICES SUBJECT TO DISCOUNT.



Elgin Adjustable Wrenches—★



7 in. long, weight 10 oz.....\$12.00 per doz.
Extra jaws..... 3.00 "

Ratchet Nut Wrenches—★



No. 1, Takes 3-16 and $\frac{1}{4}$ in. nuts, 7 in. long.....\$0.75 each,
" 2, " 5-16 " $\frac{3}{8}$ " " 8 " " 1.00 "
" 3, " 7-16 " $\frac{1}{2}$ " " 10 " " 1.25 "
" 4, " 5/8 " $\frac{3}{4}$ " " 13 " " 2.00 "
" 5, " 3/4 " 1 " " 16 " " 3.00 "

Blacksmiths, Carriage and Wagonmakers and Machinists will find this a very handy tool, strong, neat and thoroughly made. Send for a set or any one of the set.

Eclipse Wrench Attachments—★

For 8 in. 10 in. 12 in. 15 in. 18 in. wrenches.
40c. 50c. 60c. 70c. 80c. each.

With this attachment, any screw wrench can be used on pipe.



Coe's Wrenches

Genuine Knife Handle—★



6 8 10 12 15 18 21 in.
Opens $\frac{7}{8}$ $1\frac{1}{4}$ $1\frac{3}{4}$ $2\frac{1}{8}$ $2\frac{5}{8}$ 3 $4\frac{1}{4}$ "
\$9.00 10.00 12.00 14.00 24.00 30.00 36.00 per doz.

Agricultural Wrenches, Coe's pattern—★

6 8 10 12 15 inch.
\$9.00 10.00 12.00 14.00 24.00 per dozen.

Improved Acme Steel Wrenches—★



6 8 10 12 15 inch.
\$9.00 10.00 12.00 14.00 24.00 per dozen.

Always Ready Wrenches, Nickered Steel—★



No. 1 No. 2 No. 2 1/2 No. 3 No. 4
5 in. 7 9 1/2 11 1/2 in. Bicycle
\$5.00 6.75 10.50 16.00 5.00 doz.

Machinists' Drop Forged S Wrenches—★



Price Each.

No.	Size of opening.	Thick-ness of heads.	Length over all.	Price unfin-ished.	Price fin-ished
220	$\frac{3}{8}$ x 7-16	$\frac{1}{4}$	4	\$0 10	\$0 20
221	$\frac{1}{2}$ x 9-16	$\frac{5}{16}$	5	15	30
222	$\frac{3}{4}$ x 13-16	$\frac{3}{8}$	6	20	40
223	$\frac{7}{8}$ x 1	$\frac{7}{16}$	7	25	50
224	1 x $1\frac{1}{8}$	$\frac{1}{2}$	8	50	60
225	1 3-16 x $1\frac{1}{4}$	9-16	9	35	70

ALL PRICES SUBJECT TO DISCOUNT.

Engineers' Wrenches—★

Double Head.



Drop Forged from Specially Selected Steel.

No.	Size Bolts, U. S. Stan- dard Nuts.	Openings, Inches.	Extreme Length.	Price Un- finished.	Price Semi- finished.	Price Fin- ished.
21	$\frac{1}{8}$ & $\frac{3}{16}$	$\frac{1}{8}$ & $\frac{1}{4}$	$3\frac{1}{4}$	\$0 12	\$0 18	\$0 24
22	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{8}$ & $\frac{1}{2}$	4	14	21	28
23	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{8}$ & $\frac{1}{2}$	4	15	23	30
24	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{8}$ & $\frac{1}{2}$	$4\frac{7}{8}$	17	25	34
25	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{1}{2}$	$4\frac{7}{8}$	18	27	36
26	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{1}{2}$	$4\frac{7}{8}$	20	30	40
27	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{1}{2}$	$5\frac{7}{8}$	21	32	42
28	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{1}{2}$	$6\frac{7}{8}$	23	35	46
29	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{3}{8}$ & $\frac{1}{2}$	$6\frac{7}{8}$	25	38	50
30	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{3}{8}$ & $\frac{1}{2}$	$7\frac{3}{4}$	28	42	56
31	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{2}$ & $\frac{3}{4}$	$7\frac{3}{4}$	30	45	60
32	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{2}$ & $\frac{3}{4}$	$8\frac{3}{4}$	34	51	68
33	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{2}$ & $\frac{3}{4}$	$8\frac{3}{4}$	36	54	72
34	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{2}$ & $\frac{3}{4}$	$9\frac{3}{4}$	41	61	82
35	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{2}$ & $\frac{3}{4}$	$9\frac{3}{4}$	43	65	86
36	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{2}$ & $\frac{3}{4}$	$11\frac{1}{8}$	50	75	1 00
37	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{2}$ & $\frac{3}{4}$	$11\frac{1}{8}$	53	80	1 06
38	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{2}$ & $\frac{3}{4}$	$13\frac{1}{2}$	62	93	1 24
39	$\frac{3}{4}$ & 1	$\frac{3}{4}$ & 1	$13\frac{1}{2}$	65	98	1 30
40	$\frac{3}{4}$ & 1	$\frac{3}{4}$ & 1	$15\frac{1}{2}$	78	1 17	1 56
41	$\frac{3}{4}$ & 1	$\frac{3}{4}$ & 1	$15\frac{1}{2}$	82	1 23	1 64
42	$\frac{3}{4}$ & 1	$\frac{3}{4}$ & 1	$17\frac{3}{8}$	1 00	1 50	2 00
43	1 & $1\frac{1}{8}$	1 & $1\frac{1}{8}$	$17\frac{3}{8}$	1 08	1 62	2 16
44	1 & $1\frac{1}{8}$	1 & $1\frac{1}{8}$	$19\frac{3}{8}$	1 27	1 91	2 54
45	$1\frac{1}{8}$ & $1\frac{1}{4}$	$1\frac{1}{8}$ & $1\frac{1}{4}$	$19\frac{3}{8}$	1 35	2 03	2 70
46	$1\frac{1}{8}$ & $1\frac{1}{4}$	$1\frac{1}{8}$ & $1\frac{1}{4}$	$21\frac{1}{4}$	1 65	2 48	3 30
47	$1\frac{1}{4}$ & $1\frac{3}{8}$	$1\frac{1}{4}$ & $1\frac{3}{8}$	$21\frac{1}{4}$	1 75	2 63	3 50
48	$1\frac{1}{4}$ & $1\frac{3}{8}$	$1\frac{1}{4}$ & $1\frac{3}{8}$	$23\frac{1}{4}$	2 10	3 15	4 20
49	$1\frac{3}{8}$ & $1\frac{1}{2}$	$1\frac{3}{8}$ & $1\frac{1}{2}$	$23\frac{1}{4}$	2 25	3 38	4 50
50	$1\frac{3}{8}$ & $1\frac{1}{2}$	$1\frac{3}{8}$ & $1\frac{1}{2}$	$25\frac{1}{8}$	2 65	3 98	5 30
51	$1\frac{1}{2}$ & $1\frac{5}{8}$	$1\frac{1}{2}$ & $1\frac{5}{8}$	$25\frac{1}{8}$	2 85	4 28	5 70
52	$1\frac{1}{2}$ & $1\frac{5}{8}$	$1\frac{1}{2}$ & $1\frac{5}{8}$	$27\frac{1}{8}$	3 30	4 95	6 60
53	$1\frac{5}{8}$ & $1\frac{3}{4}$	$1\frac{5}{8}$ & $1\frac{3}{4}$	$27\frac{1}{8}$	3 55	5 33	7 10
54	$1\frac{3}{4}$ & 2	$1\frac{3}{4}$ & 2	$30\frac{7}{8}$	4 15	6 23	8 30
55	$1\frac{3}{4}$ & 2	$1\frac{3}{4}$ & 2	$30\frac{7}{8}$	4 55	6 83	9 10
56	$1\frac{3}{4}$ & $2\frac{1}{4}$	$1\frac{3}{4}$ & $2\frac{1}{4}$	$34\frac{5}{8}$	5 45	8 18	10 90
57	2 & $2\frac{1}{4}$	2 & $2\frac{1}{4}$	$34\frac{5}{8}$	6 15	9 23	12 30

Furnished with regular thickness of heads.

"Unfinished" wrenches have milled openings.

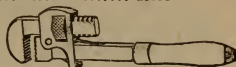
ALL PRICES SUBJECT TO DISCOUNT.

Pipe Wrenches—★

Bemis & Call's, Long Nut—
Combination.



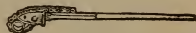
10 in., $\frac{1}{8}$ to 1 in. pipe	\$25.25 per doz.
12 " $\frac{1}{8}$ " $1\frac{1}{4}$ " "	23.50 "
15 " $\frac{1}{8}$ " 2 " "	40.50 "

Stillson Wrenches—★

6 in., $\frac{1}{8}$ in. wire to $\frac{1}{8}$ in. pipe	\$2.00 each.
8 " $\frac{1}{8}$ " " " $\frac{3}{4}$ " "	2.10 "
10 " $\frac{1}{8}$ " " " 1 " "	2.25 "
14 " $\frac{1}{4}$ " " " $1\frac{1}{2}$ " "	3.00 "
18 " $\frac{1}{4}$ " " " 2 " "	4.00 "
24 " $\frac{1}{4}$ " " " $2\frac{1}{2}$ " "	6.00 "
35 " $\frac{1}{2}$ in. pipe to $3\frac{1}{2}$ in. pipe	12.00 "
48 " 1 " " " 5 " "	18.00 "

Chain Pipe Wrenches,

Brock's—★



Nos.	0	1	2	3	$3\frac{1}{2}$	4	5
Capacity, in.	$\frac{1}{8}$ to $\frac{3}{4}$	$\frac{1}{2}$ to $1\frac{1}{2}$	$\frac{1}{4}$ to $2\frac{1}{2}$	$\frac{3}{4}$ to 4	1 to 6	$1\frac{1}{2}$ to 8	2 to 14
Length, in.	12 $\frac{1}{2}$	20	27	37	44	50	64
Weight, lbs.	1 $\frac{1}{4}$	4 $\frac{1}{4}$	8	15	20	28	47
Price, each.	\$2.50	3.50	5.50	7.50	9.00	11.00	18.00
Extra chains	.75	1.00	1.50	2.50	3.25	4.00	6.00
Extra jaws.	1.00	1.75	2.75	4.00	4.75	5.50	7.50

Barnes' Pipe

Cutters—★



Barnes' Three Wheel, No. 1,	$\frac{1}{8}$ to 1 in.	\$ 4.50
" " " " " 2,	$\frac{1}{2}$ to 2 in.	6.00
" " " " " 3,	$1\frac{1}{2}$ to 3 in.	10.00
" " " " " 4,	$2\frac{1}{2}$ to 4 in.	20.00
" " " " " 5,	4 to 6 in.	30.00

Pipe Tongs, Common—★

$\frac{1}{4}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2 inch.
\$0.60	0.65	0.70	0.75	0.90	1.10	1.30	1.50	1.90 each.
$2\frac{1}{2}$	3	$3\frac{1}{2}$			4	$4\frac{1}{2}$		5 inch.
\$2.50	3.75	4.50			6.00	8.00		10.00 each

Brown's Adjustable—★

No.	1	$1\frac{1}{2}$	2	3	4
Size	$\frac{1}{8}$ to $\frac{3}{4}$	$\frac{3}{8}$ to 1	$\frac{1}{2}$ to $1\frac{1}{4}$	1 to 2	$1\frac{1}{2}$ to 3 in.
Each	\$1.30	1.65	2.00	3.00	6.00
No.	5	6	7		
Size	$2\frac{1}{2}$ to 4	3 to 5	4 to 7 in.		
Each	\$11.00	25.00	37.00		

ALL PRICES SUBJECT TO DISCOUNT.

Butterises—★



Little Giant\$1.50 each.
Ebony wood handle, adjustable to
length. Extra blades....30c. each.

I X L Farriers' Knives—With Bone Handles.



Paring Knife.

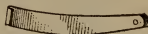


Searcher.

English \$5.10 per dozen.

Nielson's Farriers' Knives, Iron Handles.—★

With spring to lock the blade.



Nickled, with 3 Blades.....\$21.60 per doz. sets.
Japanned, with 3 Blades..... 20.40 " "
Extra Blades 4.80 per dozen.

Pope's Farriers' Handles and Knives—



Iron Handles with knife.....\$4.50 per dozen.
Iron Handles only 90 " "
Knives only 3.60 " "

Heller's Farriers' Knives—★



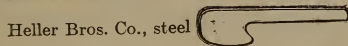
With Wood Handles
.....\$5.00 per doz.
Knives $\frac{1}{4}$ to 1 in. wide.

Farriers' Knife Stones—★

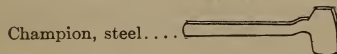


Heller's. 8 inches long\$1.70 per doz.

Sole Knives—★



Heller Bros. Co., steel . . . \$6.00 per doz.



Champion, steel.... 6.00 "

Toe Knives—Chicago★....



.....\$9.00 per doz.

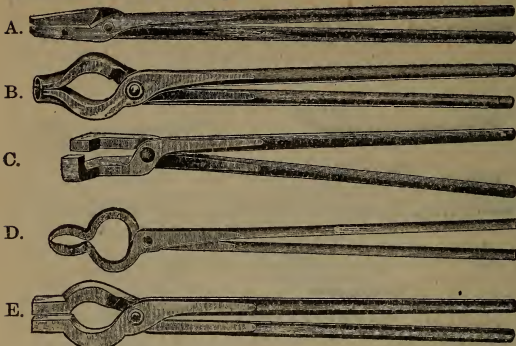
Buffers—★



Heller Bros. Co., steel.....\$6.00 per doz.
Champion, " 6.00 "

ALL PRICES SUBJECT TO DISCOUNT.

Blacksmiths' Tongs—



- A. Plain, straight jaws, all lengths.....14c. per lb.
 B. Bolt tongs, curved and fluted.....24c. "
 C. Pick tongs with hook jaw.....28c. "
 D. Pick-up tongs.....28c. "
 E. Gad tongs.....22c. "

Blacksmiths' Tongs—★

Drop-forged without weld from steel. Smooth finished.
 Hold round, square and oval stock.



Common tongs for general use.

		Price per dozen.	
1/8 in.	14 in. long	\$ 7.50	1/8 in. 24 in. long \$13.00
1/4 in.	14 in. "	7.50	1 1/8 in. 30 in. " 15.00
3/8 in.	16 in. "	8.50	1 1/8 in. 30 in. " 17.00
1/2 in.	20 in. "	9.50	1 1/4 in. 30 in. " 17.00
5/8 in.	24 in. "	11.00	1 3/8 in. 30 in. " 18.00
3/4 in.	24 in. "	11.00	1 1/2 in. 30 in. " 18.00

Other lengths furnished if wanted.



Tongs for round and square iron.

		Price each.	
1/4 in.	16 in. long	\$0.75	7/8 in. 24 in. long \$1.25
5-16 in.	16 in. "	.75	1 in. 24 in. " 1.35
3/8 in.	18 in. "	.75	1 1/8 in. 30 in. " 1.65
1/2 in.	24 in. "	.95	1 1/4 in. 30 in. " 1.80
5/8 in.	24 in. "	1.05	1 3/8 in. 30 in. " 1.95
3/4 in.	24 in. "	1.15	1 1/2 in. 30 in. " 2.10

Other lengths furnished if desired.

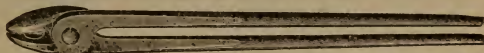
ALL PRICES SUBJECT TO DISCOUNT.

Farriers' Tongs—★

A.



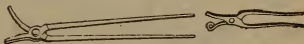
B.



C.



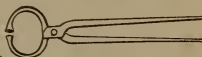
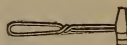
A.	Heller Bros. Co., steel,	12 to 17 in...	\$6.00 per doz.
B.	Champion	" 12 to 16 in...	6.00 "
C	Chicago	" 12 in.....	5.00 "
	"	" 14 in.....	5.50 "

Clinch Tongs—★

Heller Bros. Co., steel, straight end, 14 in,	\$26.40 per doz.
Champion, steel, round end.....	26.40 "
" " straight end	26.40 "

Hoof Testers—★

Heller Bros. Co. steel,
15 in.....\$28.80 per doz.

**Creasers—★**

Heller Bros. Co., steel, for handle.....	\$ 6.00 per doz.
Champion	" with handle 10.80 "
Chicago	" 7/8 in. sq. for handle 4.00 "
"	" 1 in. " " 5.00 "

**Fore Punches—★**

Heller Bros. Co., steel, for handle.....	\$ 5.40 per doz.
Champion, steel, with handle	10.80 "

Nail Punches—★

Champion, steel, handled	\$10.80 per doz.
Chicago,	" for handles, 7/8 in. square 4.00 "
"	" " 1 in. 5.00 "

**Nail Stamps—★**

Fits the nail hole. With wood
handles\$10.80 per doz.

ALL PRICES SUBJECT TO DISCOUNT.

Nail Gauges—*

Used on shoes not creased. Gauges
the holes from edge of shoe.

Price \$15.00 per doz.

**Pritchels—***

Heller Bros. Co., steel, 12 in. \$3.50 per doz.

Chicago, steel, $\frac{5}{8}$ oct., 10 in long. 40 per lb.

**Larson
Pincers—***

For Farriers and Blacksmiths.

No. 1.	Blacksmiths'	13 in. long	.....	\$15.00	per doz.
" 2.	Light jaw	12 "	.....	12.00	"
" 2.	Heavy "	12 "	.....	12.00	"
" 3.	With Bolt Holder	14 in long	.....	15.00	"
" 4.	Carpenters'	10 "	.....	12.00	"
" 5.	Light Work	8 "	.....	9.00	"

Blacksmiths'**Shoeing Pincers—***

A high grade steel tool.
12 inches long. \$8.00 per doz.
14 " " 24.00 "

**Farriers' Pincers—***

Heller Bros. Co. Steel.

12 in. .. \$18.00 per doz.

14 " .. 24.00 "

16 " .. 30.00 "

Chicago, steel.

No. 10, 10 in. No. 12, 12 in.

Price per doz. \$9.00 10.00

Extra heavy ... No. 13, 13 in. No. 14, 14 in.

Price per doz. \$13.00 15.00

Farriers' Nippers—*

Heller Bros. Co., steel. 8 in. 10 in. 12 in. 14 in.

Price, per doz. \$14.40 19.20 24.00 28.00

Champion, per doz. 14.40 19.20 24.00 28.80

Chicago, steel. No. 30, 12 in. No. 32, 14 in.

Price per doz \$15.00 16.00

ALL PRICES SUBJECT TO DISCOUNT.

Hoof Parers—★

Heller Eros. Co.

12 in....\$24.00 per doz.

14 " ... 28.80 "

**Hoof Parers—★**

Champion.

12 in. ... \$24.00 per doz.

14 " ... 28.80 "

With adjustable knife..... 28.80 "

**Champion Giant
Hoof Parers—★**

Powerful leverage.

Straight cuts. Jaws re-
movable for sharpening.

Price \$40.00 per doz.

**Bliss
Hoof Cutters—★**

Price..... \$2.50 each.

**Champion Eclipse
Hoof Shears—★**Cutting blade is formed
at an angle. Spring in the
joint. Price \$28.80 per doz.**Hoof and
Clinch Nippers—★**

Champion, Adjustable jaws. 12 inch \$24.00 per doz.

**Champion
Clinch Nippers—★**

10 in., \$19.20 per doz.

**Champion Nail Head Nippers—★**No. 1, cuts to No. 5
nails \$43.20 per doz.No. 2, cuts to No. 8
nails \$57.60 per doz.

ALL PRICES SUBJECT TO DISCOUNT.

Farriers' Driving Hammers—★

- a. Plumb's adze eye, round poll,
size 3, 7 ounce.....\$7.50 per doz.
Plumb's adze eye, octagon
poll, size 3, 7 ounce..... 7.50 “
b. Boston, adze eye, size 6, 12 oz. 9.00 “



a.

b.



No. 64.

No. 64. Heller Bros. Co.'s 11
to 20 ounces, per doz....\$12.00

No. 65. Heller's pattern, 13 to
20 ounces, per doz..... 15.00



No. 65.



Champion Scotch Pattern Per doz.

No. 13. Round poll.....\$15.00

No. 14. Square poll..... 15.00

**Farriers' Hammers, Heller Bros. Co.'s—★**

No. 60



No. 61.



No. 62.



No. 63.



No. 67.



No. 68.

	Pounds	Per doz.
No. 60. Cat Head or Turning Hammer...	2 to 3	\$28.80
" 61. Rounding Hammer.....	2 to 3	28.80
" 62. Fitting ".....	2 to 3	24.00
" 63. Hand ".....	2 to 3	15.60
" 67. Sharpening ".....	1¾ to 2¾	28.80
" 68. " corrugated pene	2 to 3	28.80

ALL PRICES SUBJECT TO DISCOUNT.

Farriers' Hammers, Champion—★

No. 4.



No. 5.



No. 8.



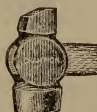
No. 10.



No. 9.



No. 7.



No. 11.



No. 12.

	Pounds	Per doz.
No. 4. Maud S. Rounding Hammer.....	1¾ to 3	\$28.80
" 5. Fitting Hammer.....	2 to 3	24.00
" 8. Double Side Pene, Double Face..	2 to 3	28.80
" 10. New Cat Head Hammer.....	2 to 3	28.80
" 9. Champion Pattern Fitting Ham..	2 to 3	28.80
" 7. Hand Hammer.....	2 to 3	15.60
" 11. Mallory Electric Sharpening Ham.	2 to 3	28.80
" 12. Electric Sharpening Hammer....	2 to 3	28.80

**Farriers' Hardies, Heller Bros.
Co.'s—★**

Straight and Half-round cut. ¾, ⅞,
1 and 1½ inch shanks.

Straight.....\$6.00 per doz.

Half-round..... 9.60 "

**B.S. Hand Hammers, Handled—★**

Size	Weight	Price
No.0.	1 lb. 10 oz.	\$13.00 per doz.
" 1.	2 lb.	14.00 "
" 2.	2 lb. 10 oz.	15.00 "
" 3.	3 lb.	16.00 "
" 4.	3 lb. 8 oz.	17.00 "
" 5.	4 lb. 8 oz.	19.00 "

ALL PRICES SUBJECT TO DISCOUNT.

Machinists' Hammers, Handled—★

Ball, cross and straight pene, octagon pattern.

OIL FINISHED.

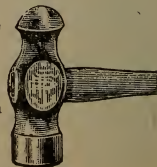
Size	Weight	Price
No. 0000	6 oz.	\$12.00 per dozen
" 000	8 oz.	12.00 "
" 00	12 oz.	12.00 "
" 0	1 lb.	12.50 "
" 1	1 lb. 4 oz.	13.50 "
" 2	1 lb. 8 oz.	14.50 "
" 3	1 lb. 12 oz.	15.50 "
" 4	2 lb.	16.50 "
" 5	2 lb. 4 oz.	17.50 "
" 6	2 lb. 8 oz.	19.00 "
" 7	2 lb. 12 oz.	20.50 "
" 8	3 lb.	22.00 "
" 9	3 lb. 8 oz.	24.00 "

**Riveting Hammers, Handled—★**

Size	Weight	Price
No. 0	4 oz.	\$5.50 per dozen
" 1	7 oz.	5.75 "
" 2	9 oz.	6.00 "
" 3	12 oz.	6.25 "
" 4	15 oz.	6.50 "
" 5	1 lb. 2 oz.	7.00 "
" 6	1 lb. 6 oz.	7.50 "
" 7	1 lb. 10 oz.	8.00 "

Carriage Ironers' Hammers, Handled—★

Size	Weight	Price
No. 1	1 lb. 14 oz.	\$15.50 per dozen
" 2	2 lb. 6 oz.	16.50 "
" 3	2 lb. 12 oz.	17.50 "



ALL PRICES SUBJECT TO DISCOUNT.

**Plow or Engineers' Hammers,**

Handled—★

Size	Weight	Price
No.0	1 lb. 2 oz.	\$12.00 per dozen
" 1	1 lb. 10 oz.	13.00 "
" 2	2 lb.	14.00 "
" 3	2 lb. 8 oz.	15.00 "
" 4	3 lb.	16.00 "
" 5	3 lb. 8 oz.	17.00 "
" 6	4 lb. 8 oz.	19.00 "

Engineers' Double Faced Hammers, Handled—★

Size	Weight	Price
No.0	1 lb. 8 oz.	\$14.50 per dozen
" 1	2 lb.	15.50 "
" 2	2 lb. 6 oz.	16.50 "
" 3	3 lb.	18.00 "
" 4	3 lb. 10 oz.	19.50 "

**Chipping Hammers, Handled—★**

Size	Weight	Price
No.0	1 lb.	\$12.50 per dozen
" 1	1 lb. 4 oz.	13.00 "
" 2	1 lb. 8 oz.	13.50 "
" 3	2 lb.	14.50 "
" 4	2 lb. 8 oz.	15.50 "
" 5	2 lb. 14 oz.	16.50 "

Adze Eye Nail Hammers, Handled—★

Size	Weight	Price
No.1	1 lb. 4 oz.	\$9.00 per dozen
" 1½	1 lb.	8.50 "
" 2	13 oz.	8.00 "



ALL PRICES SUBJECT TO DISCOUNT.

BLACKSMITHS' FORGING TOOLS

Superior designs and perfectly proportioned for service.
Prices on next page.



Blacksmiths' Forging Tools—

Made of the best cast steel and warranted.

Illustrated on page 94.

Chisels, Cold Cutters, Flatters, Fullers, Hardies
Heading Tools, Hot Cutters, Punches, Set Ham-
mers, Swages, Track Chisels and Punches...21c per lb.

Center Punches—See cut on page 94.

Blacksmiths', Steel.....21c per lb.

Countersinks—See cut on page 94.

Blacksmiths', Steel.....21c per lb.

Channel Swages—

For welding channels for rubber tires.

Prices per pair top and bottom.



Top.

$\frac{3}{4}$ in.	\$4.00	$1\frac{1}{2}$ in.	\$5.00
$\frac{7}{8}$ "	4.00	$1\frac{5}{8}$ "	5.40
1 "	4.00	$1\frac{3}{4}$ "	5.40
$1\frac{1}{8}$ "	4.40	2 "	5.40
$1\frac{1}{4}$ "	4.40	$2\frac{1}{2}$ "	6.30
$1\frac{3}{8}$ "	5.00	3 "	10.75



Bottom.

Leather Aprons—

With Straps.

Made from selected hides, specially for our trade. In ordering aprons state whether large or small size and light or heavy weight. Blacksmiths' and Farriers' large...\$3.00 each

Small light aprons.....\$2.00 each.

Sheepskins, for aprons.....1.50 "

**Armstrong Universal Ratchet Drill Stocks—***

Will drive a drill in any position where it is possible to move the handle either in a vertical or horizontal direction or at any intermediate angle. Handle can be fixed rigidly, or set to drill in cramped places.

No. 4. Drills to 1-in. hole.....\$12.00 each.

Styles of Spindles for No. 4 Ratchet.

M. Takes square taper shank drills, $\frac{3}{8}$ -inch small end.

B. Takes square taper shank drills, $\frac{1}{2}$ -inch small end.

K. Takes No. 2 Morse taper shank drills.

Price of Spindles.....\$2.40 each.

No. 6. Drills to 2-in. holes.....\$18.00 each.

Styles of Spindles for No. 6 Ratchet.

C. Takes square taper shank drills, $\frac{3}{8}$ -inch small end.

F. Takes square taper shank drills, $\frac{1}{2}$ -inch small end.

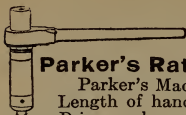
N. Takes No. 3 Morse taper shank drills.

S. Takes No. 4 Morse taper shank drills.

Price of Spindles.....\$3.60 each.

Regular Morse taper reducing sockets can be used in K. N. and S. Spindles.

ALL PRICES SUBJECT TO DISCOUNT.



Parker's Ratchet Drill Stocks—★

Parker's Machinists' No. 4	5	6	6½	7
Length of handle, inches	10	12	15	17 20
Price, each	\$5.75	6.00	7.00	7.50 8.00
Parker's Boiler Makers'	No. 8 9			
Length of handle, inches	10 12			
Price, each	\$5.50 6.00			

Little Giant Drill Holders—★



For straight shank drill bits.

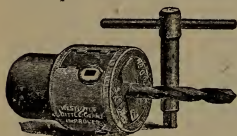
Straight Shank, ½ and ¾ in., holding ⅛ to 15-32 in. 70c. each.

Taper Shank, holding ⅛ to 15-32 in. drills 85c. each.

Each holder carries one size bit only. Drill bits extra.

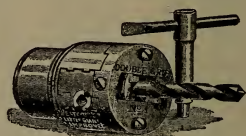
When Taper Shanks are wanted Morse No. 2 will be sent unless otherwise ordered.

Drill Chucks, Little Giant Improved, and Double Grip—★



Improved.

No.	Diameter.
00	17-16 in.
0	2½ in.
1	3 in.
2	3½ in.
2½	4 in.
3	6 in.
4	6½ in.



Double Grip.

Holds drills.	Price, each.
0 to ¼ in.	\$7.00
0 to ½ in.	8.00
0 to ¾ in.	9.00
0 to 1 in.	10.00
0 to 1 in. ex. strong	11.00
0 to 1½ in.	13.00
0 to 2 in.	20.00

Extras, For Little Giant Improved Drill Chucks—★

Chuck No. 00	0	1	2	2½	3	4
Screws .. \$1.00	\$1.00	\$1.00	\$1.10	\$1.50	\$2.50	\$3.00 each.
Jaws.....	2.00	2.25	2.50	2.75	3.50	5.00 6.25 per pair.

Extra Arbors, For L. G. Drill Chucks—★

For B. S. Drills, ½ and ⅝ shanks. 50c. each.

With blank shanks, 4½ in. long, 1 in. diameter. 50c. "

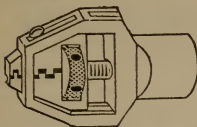
Morse Tapers.. Nos. 1	2	3	4	5
	\$1.00	1.00	1.25	1.50 2.00

All Little Giant Drill Chucks are now made with screw larger than formerly and are marked with a STAR. Therefore in ordering extra screws or jaws state whether the chuck is marked with a star or not. The gauge screw can be fitted at the factory to the old style chucks at an extra charge of 60 cents for work on the chuck in addition to price of the screw.

ALL PRICES SUBJECT TO DISCOUNT.

National Drill Chucks—★

A positive drive. Easy to clean. Always see your work—no shadow.



Unpolished. Socket for Arbor.				Price.
No.				
8.	Holding Drills	0 to	$\frac{1}{4}$ in.	\$ 5.00
9.	"	"	0 to $\frac{3}{8}$ in.	5.50
10.	"	"	0 to $\frac{1}{2}$ in.	6.50
11.	"	"	0 to $\frac{3}{4}$ in.	7.50
12.	"	"	0 to 1 in.	10.00
13.	"	"	0 to $1\frac{1}{2}$ in.	16.00
14.	"	"	0 to 2 in.	18.00

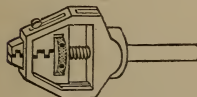
No. 13 fitted for face plate unless ordered for arbor.

No. 14 goes on with face plate only.

Arbors, $\frac{1}{2}$ or $\frac{5}{8}$ shanks 50c. each.
Arbors, with Morse Taper Shanks, for Nos. 8 to 14 chucks.

Nos.	1.	2.	3.	4.	5 Taper.		
	\$1.00	\$1.00	\$1.25	\$1.50	\$2.00 each.		
Parts for Nos. 8	9	10	11	12	13	14 Ch'ks.	
Bodies.....	\$3.00	\$3.75	\$4.30	\$4.75	\$5.00	\$10.00	\$12.00 each.
Jaws.....	2.00	2.50	3.00	3.75	4.50	6.50	8.00 set.
Screws.....	1.00	1.00	1.20	1.50	2.50	3.00	3.50 each.

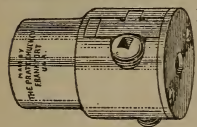
Unpolished. $\frac{1}{2}$ or $\frac{5}{8}$ in. Solid Arbor.



No.		Price.
15.	Holding Drills 0 to $\frac{3}{8}$ in. straight arbor.....	\$ 5.50
16.	Holding Drills 0 to $\frac{1}{2}$ in. straight arbor.....	6.50
17.	Holding Drills 0 to $\frac{3}{4}$ in. straight arbor.....	7.50

Nos. 15, 16 and 17 have the Arbor solid with the body.

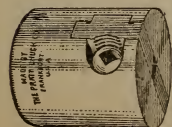
When ordering be sure to give size of arbor.

Pratt's Positive Drive Drill Chucks—★

No.	Diameter	Holds drills	Price.
1	$2\frac{1}{4}$ in.	0 to $\frac{1}{2}$ in.	\$ 8.00
2	3 in.	0 to $\frac{3}{4}$ in.	9.00
3	$3\frac{3}{4}$ in.	0 to 1 in.	10.00
4	$5\frac{1}{4}$ in.	0 to $1\frac{1}{2}$ in.	20.00
5	$6\frac{3}{4}$ in.	0 to 2 in.	25.00

Nos. 1 2 3 4 5
Extra Screws \$1.00 1.00 1.50 2.50 3.00 each.
Extra Jaws. 2.00 2.00 3.00 4.25 5.00 per set.

Arbors with $\frac{1}{2}$ to $\frac{5}{8}$ shank, 50 cents each.

**Pratt B. S. Drill Chucks—★**

No.	Diameter	Holds drills	Price.
13	$2\frac{1}{4}$ in.	0 to $\frac{3}{8}$ in.	\$3.65
14	3 in.	0 to $\frac{5}{8}$ in.	4.55

Extra Arbors, $\frac{1}{2}$ and $\frac{5}{8}$ in. shanks,
50c each.

Extra Screws \$1.00 each, extra Jaws
\$2.00 per set.

ALL PRICES SUBJECT TO DISCOUNT.

MORSE TWIST DRILLS.

NOTE.—In ordering Twist Drills be particular to specify whether exact or over-sizes are wanted. It is our rule to send over-size unless otherwise stated.

No. 109E.—★



Square Taper Shanks to fit Ratchet Drill Stocks.

Price, with Shanks $\frac{5}{8}$ inch by $\frac{3}{8}$ inch and $1\frac{1}{2}$ inches long and Shanks $\frac{3}{4}$ inch by $\frac{1}{2}$ inch and $1\frac{3}{4}$ inches long.

Diameter, Inches.	Price, Each.	Length, Inches.	Diameter, Inches.	Price, Each.	Length, Inches.
$\frac{1}{4}$	\$1.00	5	27-32	\$1.90	$7\frac{1}{4}$
9-32	1.05	5	$\frac{7}{8}$	2.05	$7\frac{1}{2}$
5-16	1.10	5	29-32	2.20	$7\frac{3}{4}$
11-32	1.15	5	15-16	2.30	8
$\frac{3}{8}$	1.20	6	31-32	2.40	$8\frac{1}{4}$
13-32	1.25	$6\frac{1}{4}$	1	2.55	$8\frac{1}{2}$
7-16	1.25	$6\frac{1}{4}$	1 1-32	2.70	$8\frac{3}{4}$
15-32	1.30	$6\frac{1}{4}$	1 1-16	2.85	9
$\frac{1}{2}$	1.30	$6\frac{1}{2}$	1 $\frac{1}{8}$	3.10	9
9-16	1.35	$6\frac{1}{2}$	1 3-16	3.35	9
$\frac{5}{8}$	1.40	$6\frac{1}{2}$	1 $\frac{1}{4}$	3.65	9
11-16	1.45	$6\frac{1}{2}$	1 5-16	3.90	9
$\frac{3}{4}$	1.55	$6\frac{1}{2}$	1 $\frac{3}{8}$	4.20	9
25-32	1.65	$6\frac{3}{4}$	1 7-16	4.50	9
13-16	1.75	7	1 $\frac{1}{2}$	4.80	9

Parties ordering Square Taper Shank Drills will please state number of ratchet and name of manufacturer.

Morse Twist Drills. No. 109.—★



To use in Bit Brace. For metal or wood.

Diameter, Inches.	Price, per Dozen.	Price, Each.	Whole Length, Inches.	Length from Shank to Point, Inches.
2-32	\$1.50	\$0.14	3 5-16	$1\frac{1}{2}$
3-32	1.65	.16	$3\frac{5}{8}$	$1\frac{7}{8}$
4-32	2.10	.20	4 1-16	$2\frac{1}{4}$
5-32	2.60	.24	$4\frac{3}{8}$	$2\frac{1}{2}$
6-32	3.10	.29	$4\frac{3}{4}$	$2\frac{7}{8}$
7-32	3.60	.33	$5\frac{1}{4}$	$3\frac{1}{8}$
8-32	4.10	.38	5 3-16	3 15-16
9-32	4.70	.43	$5\frac{3}{8}$	$4\frac{1}{4}$
10-32	5.40	.48	$5\frac{1}{2}$	$4\frac{1}{4}$
11-32	6.30	.54	$5\frac{7}{8}$	$4\frac{5}{8}$
12-32	7.20	.62	$5\frac{7}{8}$	$4\frac{5}{8}$
13-32	8.00	.68	$5\frac{7}{8}$	$4\frac{5}{8}$
14-32	8.80	.75	$6\frac{1}{4}$	5
15-32	9.60	.82	$6\frac{5}{8}$	$5\frac{3}{8}$
16-32	10.30	.87	$6\frac{3}{4}$	$5\frac{1}{2}$

ALL PRICES SUBJECT TO DISCOUNT.

Morse Twist Drills. No. 102.—★

Taper Shank.



Diameter Inches.	Price, Each.	Length, Inches.	Diameter Inches.	Price, Each.	Length, Inches.
$\frac{1}{8}$	\$0.45	$5\frac{1}{8}$	1 11-32	\$5.00	$14\frac{3}{8}$
5-32	.45	$5\frac{3}{8}$	1 $\frac{3}{8}$	5.20	$14\frac{1}{2}$
3-16	.50	$5\frac{3}{4}$	1 13-32	5.40	$14\frac{5}{8}$
7-32	.55	6	1 7-16	5.60	$14\frac{3}{4}$
$\frac{1}{4}$	.60	$6\frac{1}{8}$	1 15-32	5.80	$14\frac{7}{8}$
9-32	.65	$6\frac{1}{4}$	1 $\frac{1}{2}$	6.00	15
5-16	.70	$6\frac{3}{8}$	1 17-32	6.30	15
11-32	.75	$6\frac{1}{2}$	1 9-16	6.60	$15\frac{1}{4}$
$\frac{3}{8}$	.80	$6\frac{3}{4}$	1 19-32	6.90	$15\frac{1}{4}$
13-32	.85	7	1 $\frac{5}{8}$	7.20	$15\frac{1}{2}$
7-16	.90	$7\frac{1}{4}$	1 21-32	7.50	$15\frac{1}{2}$
15-32	.95	$7\frac{1}{2}$	1 11-16	7.80	$15\frac{3}{4}$
$\frac{1}{2}$	1.00	$7\frac{3}{4}$	1 23-32	8.10	$15\frac{3}{4}$
17-32	1.10	8	1 $\frac{3}{4}$	8.40	16
9-16	1.20	$8\frac{1}{4}$	1 25-32	8.60	16
19-32	1.30	$8\frac{1}{2}$	1 13-16	8.80	$16\frac{1}{4}$
$\frac{5}{8}$	1.40	$8\frac{3}{4}$	1 27-32	9.00	$16\frac{1}{4}$
21-32	1.50	9	1 $\frac{7}{8}$	9.20	$16\frac{1}{2}$
11-16	1.60	$9\frac{1}{4}$	1 29-32	9.35	$16\frac{1}{2}$
23-32	1.70	$9\frac{1}{2}$	1 15-16	9.50	$16\frac{1}{2}$
$\frac{3}{4}$	1.85	$9\frac{3}{4}$	1 31-32	9.65	$16\frac{1}{2}$
25-32	2.00	$9\frac{7}{8}$	2	9.80	$16\frac{1}{2}$
13-16	2.15	10	2 1-32	10.20	$16\frac{1}{2}$
27-32	2.30	$10\frac{1}{4}$	2 1-16	10.60	17
$\frac{7}{8}$	2.45	$10\frac{1}{2}$	2 $\frac{1}{8}$	11.20	17
29-32	2.60	$10\frac{5}{8}$	2 3-16	12.00	17
15-16	2.75	$10\frac{3}{4}$	2 $\frac{1}{4}$	12.80	$17\frac{1}{2}$
31-32	2.90	$10\frac{7}{8}$	2 5-16	13.60	$17\frac{1}{2}$
1	3.00	11	2 $\frac{3}{8}$	14.40	18
1 1-32	3.20	$11\frac{1}{8}$	2 7-16	15.00	$18\frac{1}{2}$
1 1-16	3.40	$11\frac{1}{4}$	2 $\frac{1}{2}$	15.60	19
1 3-32	3.60	$11\frac{1}{2}$	2 9-16	16.20	$19\frac{1}{4}$
1 $\frac{1}{8}$	3.80	$11\frac{3}{4}$	2 $\frac{5}{8}$	16.80	$19\frac{1}{2}$
1 5-32	4.00	$11\frac{7}{8}$	2 11-16	17.60	20
1 3-16	4.20	12	2 $\frac{3}{4}$	19.00	$20\frac{1}{2}$
1 7-32	4.40	$12\frac{1}{8}$	2 13-16	20.00	$20\frac{1}{2}$
1 $\frac{1}{4}$	4.50	$12\frac{1}{2}$	2 $\frac{7}{8}$	21.00	21
1 9-32	4.65	$14\frac{1}{8}$	2 15-16	23.00	21
1 5-16	4.80	$14\frac{1}{4}$	3	25.00	22

Drills $\frac{1}{8}$ to 19-32 inclusive have No. 1 Taper Shanks.

" $\frac{5}{8}$ to 29-32 " " " 2 " "
 " 15-16 to $1\frac{1}{4}$ " " " 3 " "
 " 1 9-32 to 2 " " " 4 " "
 " 2 1-32 to 3 " " " 5 " "

ALL PRICES SUBJECT TO DISCOUNT.

Morse Twist Drills. No. 112.—★ $\frac{1}{2}$ inch diameter Shank.

Diameter Inches.	Price, Each.	Length, Inches.	Diameter Inches.	Price, Each.	Length, Inches.
$\frac{1}{8}$	\$0.45	$5\frac{1}{8}$	7-16	\$0.80	6
5-32	.45	$5\frac{5}{8}$	15-32	.83	6
3-16	.50	$5\frac{3}{4}$	$\frac{1}{2}$	.85	6
7-32	.55	6	17-32	.88	6
$\frac{1}{4}$	.60	6	9-16	.90	6
9-32	.65	6	19-32	1.00	6
5-16	.70	6	$\frac{5}{8}$	1.05	6
11-32	.73	6	21-32	1.10	6
$\frac{3}{8}$	.75	6	11-16	1.15	6
13-32	.78	6	$\frac{3}{4}$	1.25	6

Drills larger than $\frac{3}{4}$ inch, with Shanks $\frac{1}{2}$ inch diameter, same price as $\frac{5}{8}$ shank Drills No. 110.

Morse Twist Drills. No. 110.—★ $\frac{5}{8}$ inch diameter Shank.

Diameter Inches.	Price, Each.	Length, Inches.	Diameter Inches.	Price, Each.	Length, Inches.
$\frac{1}{8}$	\$0.55	$4\frac{7}{8}$	27-32	\$1.40	6
5-32	.58	$5\frac{1}{8}$	$\frac{7}{8}$	1.45	6
3-16	.60	$5\frac{1}{2}$	29-32	1.55	6
7-32	.65	$5\frac{3}{4}$	15-16	1.60	6
$\frac{1}{4}$	.70	6	31-32	1.70	6
9-32	.73	6	1	1.80	6
5-16	.75	6	1 1-32	1.90	6
11-32	.80	6	1 1-16	2.00	6
$\frac{3}{8}$	.85	6	1 3-32	2.10	6
13-32	.88	6	1 $\frac{1}{8}$	2.20	6
7-16	.90	6	1 5-32	2.25	6
15-32	.93	6	1 3-16	2.30	6
$\frac{1}{2}$	.95	6	1 7-32	2.35	6
17-32	.98	6	1 $\frac{1}{4}$	2.40	6
9-16	1.00	6	1 9-32	2.50	6
19-32	1.03	6	1 5-16	2.60	6
$\frac{5}{8}$	1.05	6	1 11-32	2.70	6
21-32	1.10	6	1 $\frac{3}{8}$	2.80	6
11-16	1.15	6	1 13-32	2.90	6
23-32	1.20	6	1 7-16	3.00	6
$\frac{3}{4}$	1.25	6	1 15-32	3.10	6
25-32	1.30	6	1 $\frac{1}{2}$	3.20	6
13-16	1.35	6			

ALL PRICES SUBJECT TO DISCOUNT.

Morse Twist Drills. No. 105.—★

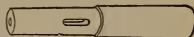
Straight shanks, Jobbers' and Machinists' sets.

Diam- eter, Inches.	Price, per Dozen.	Price, Each.	L'gth, Inches	Diam- eter, Inches	Price, per Dozen.	Price. Each.	L'gth, Inches
1-16	\$1.00	\$0.09	2½	19-64	\$3.90	\$0.35	4⅜
5-64	1.10	.10	2⅝	5-16	4.20	.37	4½
3-32	1.20	.11	2¾	21-64	4.50	.40	4⅝
7-64	1.30	.12	2⅞	11-32	4.80	.42	4¾
⅛	1.45	.13	3	23-64	5.10	.45	4⅞
9-64	1.60	.15	3⅛	⅜	5.40	.48	5
5-32	1.80	.16	3¼	25-64	5.70	.50	5⅛
11-64	2.00	.18	3⅓	13-32	6.00	.53	5¼
3-16	2.20	.20	3½	27-64	6.40	.55	5⅝
13-64	2.40	.21	3⅝	7-16	6.80	.59	5½
7-32	2.65	.23	3¾	29-64	7.20	.63	5⅝
15-64	2.90	.26	3⅞	15-32	7.50	.65	5¾
¼	3.15	.28	4	31-64	7.75	.67	5⅞
17-64	3.40	.30	4⅛	½	8.00	.70	6
9-32	3.65	.32	4¼				

Over ½ inch take Taper Shank List.

Steel Sockets, with Blank

Ends—★



No. 100. For Morse Taper Shank Drills.

No. 1, holds	¼ to 19-32 in., inclusive	.....	\$1.20 each.
" 2, "	⅝ to 29-32 in., "	.....	1.80 "
" 3, "	15-16 to 1¼ in., "	.....	2.50 "
" 4, "	1 9-32 to 2 in., "	.....	4.00 "
" 5, "	2 1-16 to 3 in., "	.....	7.50 "
" 6, "	3 1-16 to 4 in., "	.....	14.00 "

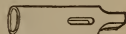
Taper Sockets, with Taper Shank—★

No. 100A. For Morse Taper Shank Drills—★

No. 1, with shank fitted to No. 2 or No. 3 Socket	.....	\$2.00 each.
" 2, " " " 3 Socket	.....	2.50 "
" 2, " " " 4 " "	.....	3.20 "
" 3, " " " 4 " "	.....	3.20 "
" 4, " " " 5 " "	.....	4.80 "
" 5, " " " 6 " "	.....	12.00 "

Sleeve Sockets. No. 100B.—★

For Morse Taper Shank Drills.

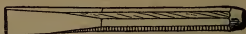


No. 1, fitted to No. 2 or No. 3 Socket	.....	\$1.80 each,
" 1, " " " 4 " "	.....	3.00 "
" 2, " " " 3 " "	.....	2.40 "
" 2, " " " 4 " "	.....	3.00 "
" 3, " " " 4 " "	.....	3.00 "
" 4, " " " 5 " "	.....	4.40 "

ALL PRICES SUBJECT TO DISCOUNT.

Hand Cold Chisels—★

Hand made, plain head.



No. 40. Octagon Steel,	$\frac{3}{8}$,	$\frac{1}{2}$,	$\frac{5}{8}$,	$\frac{3}{4}$,	$\frac{7}{8}$,	1 in.
Full length,	$5\frac{1}{4}$,	6,	$6\frac{3}{4}$,	$7\frac{1}{2}$,	8,	8 in.
Average wght. per doz.	$2\frac{1}{4}$	4	7	11	15	20 lbs.
Price per lb.	30 cts.					

Machinists' Cold Chisels, Hand made, plain head—★

No. 60. Best English Steel. Same descriptions as Hand Cold Chisels.

Price per lb.50 cts.

Cape Chisels, Plain head—★



Octagon Steel $\frac{1}{8}$ $\frac{1}{4}$ $\frac{5}{8}$ $\frac{5}{8}$ $\frac{3}{4}$ $\frac{3}{4}$ $\frac{3}{4}$ $\frac{7}{8}$ $\frac{7}{8}$ in.

Cutting edge $\frac{1}{8}$ 3-16 $\frac{1}{4}$ 5-16 $\frac{3}{8}$ 7-16 $\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$ $\frac{7}{8}$ "

No. 50. American Cast Steel.....40c. per lb.

" 70. Best English Steel.....60c. "

Plugs and Feathers—

Steel, 3 in. long,	$\frac{5}{8}$ in. hole,	\$1.86 per dozen.
" $4\frac{1}{2}$ " "	$\frac{3}{4}$ " "	2.56 " "
" 6 " "	$\frac{7}{8}$ " "	3.06 " "
" 8 " "	1 " "	4.68 " "

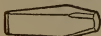


Plugs and Feathers, 10 to 40 inches long, for any size hole, made to order, prices on application.

Steel Plugs—

For Sand Stone.....30c. per lb.

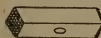
Stone Wedges—



Steel, 3 to 8 lbs.....16c. per lb.

Bush Haminers—

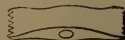
Hand made.



2 in. square, 8 in. long,	$8\frac{1}{2}$ lbs.	\$6.00 each.
$1\frac{3}{4}$ in. " 8 in. "	$6\frac{1}{2}$ lbs.	5.65 "
$1\frac{1}{2}$ in. " 7 in. "	5 lbs.	4.50 "

Stone Tooth Axes— Hand made.

5 to 6 lbs.	\$3.75 each.
$6\frac{1}{2}$ to 7 lbs.	4.15 "
8 to 9 lbs.	4.50 "



ALL PRICES SUBJECT TO DISCOUNT.

Napping Hammers—★



5 pounds and upward	30c. per lb.
3 to 5 pounds	36c. "
Under 3 pounds	45c. "

Riveting Hammers—★

Boiler Makers', 2 to 3 lbs.	50c. per lb.
Bridge Builders', Octagon finish, 4 to 4½ lbs., 8½ in. long ..	40c. "
" " plain finish, 4 to 4½ lbs., 8½ in. long ..	40c. "



Macadamizing Hammers—★

1¼ to 1 lb.	75c. per lb.
------------------	--------------

Hand Drilling Hammers,

California pattern, bevel—★

5 lbs. and upward	36c. per lb.
3 to 5 pounds	40c. per lb.
Under 3 pounds	45c. "



Drilling or Striking Hammers—★



Nevada.



Oregon.

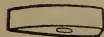
5 pounds and upward	30c. per lb.
3 to 5 pounds	36c. "
Under 3 pounds	45c. "

Stone Cutters' Hammers (Mash)—★



5 lbs. and upwards	36c. per lb.
3 to 5 pounds	40c. per lb.
Under 3 pounds	45c. "

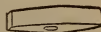
Masons' Hammers, Axe Finish—★



5 pounds and upward	50c. per lb.
3 to 5 pounds	55c. "
Under 3 pounds	60c. "

Sorting Hammers—★

1¼ to 2¼ lbs.	65c. per lb.
--------------------	--------------



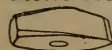
Spauling or Stone Hammers,

Single and Double Face—★

5 pounds and upward	36c. per lb.
3 to 5 pounds	40c. "
Under 3 pounds	45c. "



Stone Sledges—★



5 to 30 pounds	30c. per lb.
----------------------	--------------

ALL PRICES SUBJECT TO DISCOUNT.

Ship or Top Mauls—★



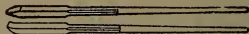
4 to 8 pounds42c. per lb.

Railroad Spike Mauls—★



6 to 12 pounds.....30c. per lb.

Crow Bars—★



Wedge and Pinch Points.

All sizes to 50 lbs. weight.....	6c.	per lb.
Over 50 to 100 lbs., advance.....	1½c.	"
" 100 " 175 " "	3c.	"
" 175 " 250 " "	4½c.	"

Mattocks—★



	Weight.	Hoe.	Cutter.	Price.
Long pattern...	6 lbs.	8½x4¼	6x3½	\$17.00 per doz.
Short " ...	5½	8¼x4¼	4¼x3½	16.50 "
Narrow " ...	6	8½x3	6x2½	17.00 "

Crub Hoes—★



No.	Weight.	Length.	Width.	Price.
0.	3 lbs.	10½	3½	\$11.50 per doz.
1.	3½	10¾	3¾	12.00 "
2.	4	11¼	4	12.50 "
3.	4½	11½	4¼	13.00 "

Stone and Quarry Picks—★



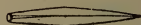
Stone.



Quarry.

Steel, 5 to 10 lbs.....40c. per lb.

Coal Wedges, Steel—★



1½ to 5 lbs., ordinary pattern20c. per lb.

Coal Sledges—★



Solid Cast Steel, 3 to 5 lbs.....	36c.	per lb.
" over 5 lbs.....	30c	"

ALL PRICES SUBJECT TO DISCOUNT.

Pittsburgh Coal Picks—★


2	2½	3	3½	4	4½	5	5½	6
\$8.50	9.00	9.50	10.00	10.50	11.00	11.50	12.00	12.50
		6½	7	7½	8 lbs.			
		\$13.00	14.00	14.50	15.00 per doz.			

Alton Coal Picks—★

Long ear.

Short ear.

Short Ear Cutting, 2½	2¾	3	3¼	lbs.....	per doz.	\$11.50
"	3½	3¾	4	4¾	4½ lbs.....	" 12.00
Short Ear Mining, 1½	1¾	2	2¼	2½	2¾	3 lbs. " 11.50
Long Ear Cutting, 2½	2¾	3	3¼	lbs.....	"	12.00
"	3½	3¾	4	4¾	4½ lbs.....	" 13.00
Long Ear Mining, 1½	1¾	2	2¼	2½	2¾	3 lbs. " 12.00

Railroad Picks—★


4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10 lbs.
\$11.50	12.50	13.50	14.50	16.50	18.50 per doz.
4	5	6	7	8	9
\$11.50	12.00	13.00	14.00	15.50	17.50
					10 lbs. 19.50 per doz.

Ore Picks, heavy pattern—★

5 to 6	6 to 7	7 to 8	8 to 9	9 to 10 lbs.
\$12.00	13.00	14.00	16.00	18.00 per doz.

Tamping Picks—★

6 to 7	7 to 8	8 to 9 lbs.
\$18.00	19.00	20.00 per doz.

Drifting Picks—★


Nos. 1	2	3	4	5
3	4	4½	5	6 lbs.
\$12.50	14.00	15.00	16.00	17.50 per doz.

Drifting Poll Picks—★


Nos. 1	2	3	4	5	6
3½	4	4½	5	6	6¾ lbs.
\$15.00	16.00	17.00	18.50	20.00	21.50 per doz.

Drifting Pick Eyes—★


Nos. 1	2	3	4	5
for 3	4	4½	5	6 lb. picks.
\$7.50	8.50	9.00	9.50	10.50 per doz.

Prospecting Picks—★

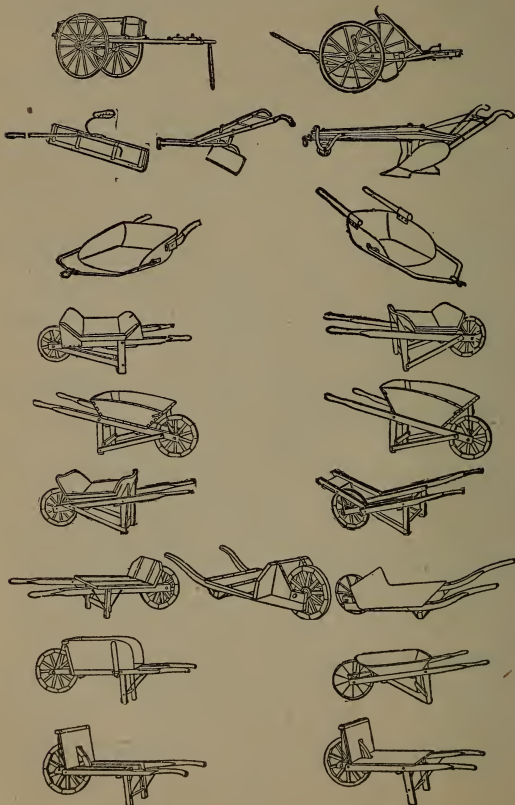

Sizes.	Weight.	Prices.
1	1 lb.	\$15.00 per doz
2	1 lb. 8 oz.	16 00 "

ALL PRICES SUBJECT TO DISCOUNT.

EARTH-MOVING IMPLEMENTS.

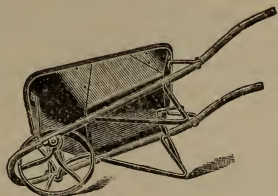
Kilbourne & Jacob's Manufacture.

Send for catalogue of Earth-Moving Implements for contractors, railroads, farmers, planters and brickmakers.

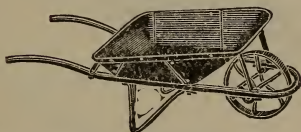


CHICAGO STEEL WHEELBARROWS.

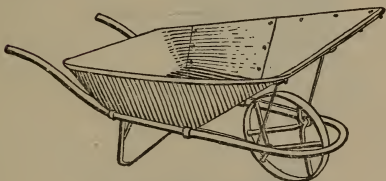
See list prices on page 109.



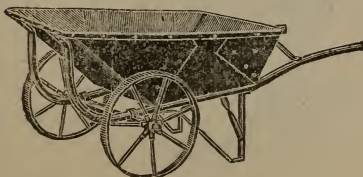
Nos. 1, 2, 4 and 5. Coal.



Nos. 9, 10, 17 and 18. Mining and Foundry.



Nos. 11 and 16. Coke.



No. 12. Two-Wheel Coal.

CHICAGO STEEL WHEELBARROWS.

See list prices on page 109.



Nos. 34, 35, 36. General Dirt and Coal.
Nos. 41, 42. Coke and Ashes.



Nos. 37, 38, 39, 40. Mining and Foundry.



No. 3. Mortar.



No. 7. Pig Iron.



No. 8. Stone.

Chicago Riveted Steel-Tray Wheelbarrows—*

Construction of the wheel.

Rim $1\frac{1}{2} \times \frac{3}{8}$ inch. Spokes $\frac{3}{4}$ inch rods welded so that the ends form a solid hub, making the strongest and most durable wheel in use for wheelbarrows.

See illustrations on pages 107 and 108.

Nos.	Carry'g	Cub. ft.	Dimensions.	Steel	Weight,	Price
	Cap.	Cap.	Inches.	No.	Lbs.	Each
1. Coal.....	325	5	33x36x10 $\frac{1}{2}$	15	90	\$8.00
4. ".....	225	3	30x33x9 $\frac{1}{2}$	15	80	6.00
2. ".....	400	6	34x42x12	15	95	9.00
5. ".....	500	8	36x46x13 $\frac{1}{2}$	15	100	10.00
9. Mining and F'dry	3	3	30x33x9 $\frac{1}{2}$	13	86	7.00
10. " " " "	5	5	33x36x10 $\frac{1}{2}$	13	94	8.50
17. " " " "	3	3	30x33x9 $\frac{1}{2}$	11	96	9.00
18. " " " "	5	5	33x36x10 $\frac{1}{2}$	11	106	10.00
11. Coke and Ashes..	6	6	34x42x12	14	100	12.50
16. " " " "	8	8	36x46x13 $\frac{1}{2}$	14	106	15.00
3. Mortar.....	4 $\frac{1}{2}$	4 $\frac{1}{2}$	32x33x11	15	85	7.00
8. Stone, 8 in. dash. ...	...	...	24x22x8	$\frac{1}{4}$ in. steel	70	5.50
7. Pig Iron, 13 in. dash. ...	...	...	20x23	$\frac{1}{4}$ in. plate	78	7.00

No. 12. Two-wheel Coal Barrow. Capacity 500 lbs. or 8 cubic ft. 36x46x13 $\frac{1}{2}$ in. deep. No. 14 Steel. Weight 120 lbs. Wheels 19 in. diameter. Tire 2 in. wide. Axle 1 in.

Track from center to center of wheels, 40 in.\$16.00

Chicago Pressed Steel-Tray Wheelbarrows—*

See illustrations on page 108.

Trays pressed from one sheet of steel without seam or lap. Edges turned on a 5-16 in. rod.

General Dirt and Coal Barrows.

No.	Cub. ft.	Dimensions,	Steel,	Weight,	Price
	Cap.	Inches.	No.	Lbs.	Each.
No. 34.....	3	28x33x7 $\frac{1}{2}$	15	78	\$6.00
No. 35....	5	30x37x9 $\frac{1}{2}$	15	88	8.00
No. 36.	6	33x41 $\frac{1}{2}$ x12	15	103	9.00

Mining and Foundry Barrows.

No.	Cub. ft.	Dimensions,	Steel,	Weight,	Price
	Cap.	Inches.	No.	Lbs.	Each.
No. 37.....	3	28x33x7 $\frac{1}{2}$	14	83	\$7.00
No. 38.....	3	28x33x7 $\frac{1}{2}$	12	93	9.00
No. 39.....	5	30x37x9 $\frac{1}{2}$	14	88	8.50
No. 40.....	5	30x37x9 $\frac{1}{2}$	12	108	10.00

Coke and Ash Barrows.

No.	Cub. ft.	Dimensions,	Steel,	Weight,	Price
	Cap.	Inches.	No.	Lbs.	Each.
No. 41.....	6	33x41 $\frac{1}{2}$ x12	15	103	\$12.00
No. 42.....	6	33x41 $\frac{1}{2}$ x12	12	118	13.00

ALL PRICES SUBJECT TO DISCOUNT.

Jackson Steel Wheelbarrows—★

	Mining, A1,	68 lbs.....	\$11.50 each.
	" A2,	74 lbs.....	12 00 "
	" A3,	80 lbs.....	12.50 "
	" A4,	86 lbs.....	14.00 "
	" A5,	92 lbs.....	15.00 "
	" A6,	130 lbs., extra h'vy	22.00 "
	Coal, B1,	78 lbs.....	14.50 "
	" B2,	84 lbs.....	15.00 "
	" B3,	90 lbs.....	16.00 "
	" B3½,	105 lbs.....	20.00 "
	" B4,	130 lbs.....	22.00 "
	F'ndry, No. 1,	85 lbs.....	14.00 "
Coal.	" " 2,	100 lbs.....	15.00 "
	" " 3,	110 lbs.....	16.50 "

Bench Screws—

1	1½	1¼	1½-inch.
\$5.50	6.50	8.00	13.00 per doz.



Bench Hooks—★

Stearns' \$9.00 per dozen.

Little Giant Countersinks, for Metal—★



For Machine Use, ½ or ⅝ in. shanks.

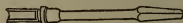
⅝ in. diameter.....	\$0.50 each.
¾ " " ".....	.75 "
7/8 " " ".....	1.00 "
1 " " ".....	1.25 "
⅝ " " ".....	.50 "
Shanks for Bit Brace.....	

Screw and Plug Bits with Plug Cutters—★



Cincinnati, ½ in.....	\$2.25 per set.
" 9-16 in.....	2.40 "
" ⅝ in.....	2.50 "

Plug Cutters—★



Cincinnati, ½ in.....	\$3.50 per dozen.
" 9-16 in.....	3.75 "
" ⅝ in.....	4.00 "

Ideal Drilling Attachments—



Used with any Bit Brace, it becomes a force feed drill. Has ball bearings. The chain does the pressing. We illustrate Style "C," the one commonly used.

Style "A" has chuck for ½ in. round shank drills.

Price..... \$1.25 each.

Style "B" has chuck for square taper shank drills.

Price..... \$1.00 each.

Style "C" has the Universal Chuck and holds 1-16 to ½ in. round shank and bit stock drills.

Price..... \$3.50 each.

ALL PRICES SUBJECT TO DISCOUNT.

Fray's Bit Braces—

Nos. 306 to 314.

Nos.....	306
Sweep, in.....	6
Price, per doz.....	\$8.42



Nos. 62 to 142.

Nos.....	307	308	310	312	314
Sweep, in.....	7	8	10	12	14
Price, per doz.....	9.08	10.36	11.66	12.96	14.26

Fray's Ratchet Bit Braces—

Nickel-plated steel, wood handle and head.

Nos.....	62	82	102	122	142
Sweep, inches.....	6	8	10	12	14
Price, per doz.....	\$15.26	15.54	17.50	19.44	21.38

Spofford's Bit Braces—★

Nos. 7 to 14.

Plain, iron head.

Nos.....	7	8	10	12	14
Sweep, in. 7	8	10	12	14	
Price, per doz.....	\$16.00	19.00	22.00	25.00	28.00

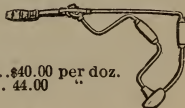
Nos. 107 to 117.

Nickeled, wood head and handle.

Nos.....	107	108	110	112	114	117
Sweep, in. 7	8	10	12	14	17	
Price, per doz.....	\$21.00	24.00	27.00	30.00	33.00	36.00

Amidon Corner Braces—

No. 8. 8 in. sweep	\$40.00
" 10, 10 in. "	44.00

**Fray's Corner Bit Braces—★**

Nickel Plated.

Head and handles Cocobolo Wood.



8 in. sweep, \$33.00 per doz.
10 " " 36.00 " "

Driven by bevel gears. The gears are completely covered with a guard-plate, keeping them free from dust and preventing injury.

ALL PRICES SUBJECT TO DISCOUNT.

Millers Falls Breast Drills—★

No. 12, Malleable Iron, improved. Has ball-bearings and level attachment.....\$30.00 per doz.

No. 10, Nickel plated, has level attachment, ball-bearings, stock is wrought, $\frac{5}{8}$ in. diam., gears one even and one 3 to 1..... 36.00 "

No. 13, Nickel plated, has level attachment, ball-bearings, stock wrought, $\frac{5}{8}$ in. diam., double geared, $\frac{1}{2}$ to 1, large gear, 6 in. diam..... 48.00 "

No. 14, double crank, breast plate 12 in. long, curved to fit the body. Round hole in spindle $\frac{1}{2}$ in. diameter. Heavy cut gears 2 to 1..... 5.00 each.

For No. 14, an adjustable chuck can be had to hold shanks smaller than $\frac{1}{2}$ in., also square shanks, \$1.00 each.

Fray's Breast Drills—

No. 1, Nickel plated, steel stock, ball-bearings.....\$5.15 each.
No. 2, Malleable iron frame, ball-bearings..... 3.30 "

Auger Bits—★

Snell's 3	4	5	6	7	8	9	10	11	12-16ths in.
\$4.00	3.50	3.50	3.75	3.75	4.00	4.25	4.50	5.00	5.50 per doz.

13	14	15	16	17	18	20	22	24-16ths in.
\$6.00	6.50	7.25	8.00	9.00	10.00	11.00	12.00	14.00 per doz.

Sets of 24 quarters consist of 2 each 6, 8 and 10-16ths and 1 each 4, 5, 7, 9, 11, 12-16ths bits.....\$4.25 per set.

Sets of 32 $\frac{1}{2}$ quarters consist of 1 each, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16-16ths bits.....\$5.75 per set.

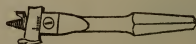
Jennings'—

3	4	5	6	7	8	9	10	11	12-16ths in.
\$3.50	3.00	3.40	3.80	4.40	4.80	5.20	5.60	6.10	6.60 per doz.

13	14	15	16	18	20-16ths in.
\$7.20	7.80	8.40	9.00	10.20	11.40 per dozen.

Sets of 24 quarters consist of 2 each, 6, 8 and 10-16ths and 1 each 4, 5, 7, 9, 11 and 12-16ths bits.....\$4.75 per set.

Sets of 32 $\frac{1}{2}$ quarters consist of 1 each 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16-16ths bits.....\$6.25 "

Clark's Expansive Auger Bits—★

To cut $\frac{1}{2}$ to $1\frac{1}{2}$ in.....\$18.00 $\frac{3}{8}$ to 3 in.....\$26.00 per doz.

Extra Cutters, $\frac{1}{2}$ to $\frac{3}{4}$; $\frac{3}{8}$ to $1\frac{1}{2}$; $\frac{3}{4}$ to $1\frac{3}{4}$; $1\frac{1}{4}$ to 3 in.

\$3.00	3.75	5.25	6.00 per doz.
--------	------	------	---------------

ALL PRICES SUBJECT TO DISCOUNT.

Syracuse Twist Drill Bits, for wood—★

Style A.

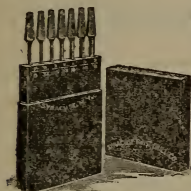


The numbers indicate the size in 32nds.

No.	Per Doz.	Each.	No.	Per Doz.	Each
2	\$1.60	\$.15	15	\$5.00	\$.45
3	1.60	.15	16	5.00	.45
4	1.60	.15	17	5.50	.50
5	1.75	.18	18	5.50	.50
6	2.00	.20	19	6.00	.55
7	2.50	.22	20	6.00	.55
8	3.00	.25	22	6.50	.60
9	3.50	.30	24	7.00	.65
10	3.50	.30	26	7.50	.70
11	4.00	.35	28	8.00	.75
12	4.00	.35	30	9.00	.85
13	4.50	.40	32	10.00	.95
14	4.50	.40			

Nos. 2 to 12, one doz.; Nos. 13 to 32, one-half doz in a box.

These bits are for wood only, but are not injured by accidental contact with nails, screws or other metal, and can be kept sharp by grinding.



Syracuse Wood Brace Drills—

Handy Set, No. 23.

One each, Nos. 4, 5, 6, 7, 8, 10 and 12, in a covered Morocco case. This new set is small and compact and may be carried in the coat pocket. The sizes are well assorted and have separate holes, numbered to facilitate finding the one wanted. The case protects the drills and prevents their loss. Every workman will want this handy set. Price.....\$1.50 per set.

German Gimlet Bits—★



2 to 5	9	10	11	12-32ds	Assorted 2 to 8-32ds
\$1.05	1.15	1.30	1.40	1.50	1.05 per doz.

Broad or Bench Hatchets—★

Size 1, 4 in. bit, 1 lb. 8 oz.....	\$10.50 per doz.
" 2, 4½ " " 1 " 12 "	11.50 "
" 3, 5 " " 2 " 2 "	13.00 "
" 4, 5½ " " 2 " 8 "	14.50 "
" 5, 6 " " 2 " 14 "	16.50 "
" 6, 6½ " " 3 " 4 "	18.00 "
" 7, 7 " " 3 " 12 "	19.50 "
" 8, 7½ " " 4 " 4 "	22.00 "



ALL PRICES SUBJECT TO DISCOUNT.

STEARNS' IRON SPOKE SHAVES—★



No. 1.

No. 1. Has $1\frac{3}{4}$ in. single cutter. \$1.72 per doz.



No. 2.

No. 2. Has $1\frac{3}{4}$ in. double cutter, concave and straight.
Price \$3.00 per doz.



No. 3.

No. 3. Has $2\frac{1}{8}$ in. single cutter. \$3.50 per doz.



No. 4.

No. 4. Has $2\frac{1}{8}$ single cutter, raised handles, \$3.50 per doz.



No. 5.

No. 5. Has $2\frac{1}{8}$ in. single cutter, adjustable cap, \$3.50 per dozen.

ALL PRICES SUBJECT TO DISCOUNT.

STEARNS' IRON SPOKE SHAVES, continued—★



No. 6.

No. 6. Has $2\frac{1}{8}$ in. single cutter, adjustable cap, raised handles. \$3.50 per doz.



No. 7.

No. 7. Has $2\frac{1}{8}$ in. single cutter, adjustable cap and throat \$4.50 per doz.



No. 8.

No. 8. Has $2\frac{1}{8}$ in. single cutter, adjustable cap and throat, raised handles \$4.50 per doz.



No. 9.

No. 9. Is a concave spoke shave. \$3.00 per doz.

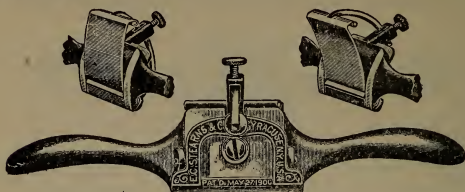


No. 10.

No. 10. Is a circle spoke shave. Has $2\frac{1}{2}$ in. cutter.
Price. \$6.00 per dozen.

ALL PRICES SUBJECT TO DISCCUNT.

STEARNS' IRON SPOKE SHAVES, continued—★



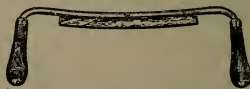
Universal.

The Universal Spoke Shave is a new tool designed to cut on flat, concave or convex surfaces. The flexible spring bottom can be set to cut inside or outside of a circle. Adjustable throat\$12.00 per doz.

Drawing Knives, Barton's—★



Wagon.



Coach.



Carriage.



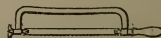
Heading.

		7	8	9	10	12 inch.
Wagon,	1½ in. blade,	\$12.00	\$13.00	\$14.00	\$15.00	\$17.00 pr. doz.
Coach,	1½ in. "	12.00	13.00	14.00	....	.... "
Carriage,	1 in. "	11.00	12.00	13.00	....	.... "
Heading,	2 in. "	....	....	16.50	18.50	22.50 "

Hack Saws—

Disston's Frames only—★ Extra Blades.★

8 in.	\$9.00 per doz.	\$2.80 per doz.
10 in.	10.00 " "	3.25 " "
12 in.	11.00 " "	3.75 " "



Utility Hack Saw Frames—★



Adjustable Extension Frame.
Takes blades from 8 to 12 in.
long. Price....85c. each.

ALL PRICES SUBJECT TO DISCOUNT.

**Universal Hack
Saw Frames—★**

Extension frame, stiff back. Takes blades from 6 to 12 in. long. Price.....\$1.00 each.

Universal Hack Saw Blades—★

8 in. long,	1/2 in. wide	.....	\$0.65 per doz.
9 "	1 1/2 "	.....	.70 per doz.
10 "	1 1/2 "	.....	.85 per doz.
12 "	9-16 "	No. 21 gauge	1.15 per doz.
12 "	3/4 "	" 21 "	1.25 per doz.
14 "	3/4 "	" 21 " for	

Hack Saw Machines.....1.50 per doz.

Star Hack Saw Frames—★

No. 4, cast iron, for 9 in. blades.....\$3.00 per doz.

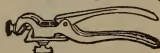
" 9, steel, adjustable for 8 to 12 in. blades. 12.00 "

Star Hack Saw Blades—★

8	9	10	11	12 inch.
\$0.65	.70	.85	.95	\$1.05 per doz.

Saw Sets—

Morrill's No. 1.....\$14.00 per doz.

**Saw Mandrels or Arbors—★**

	Diam. of pulley	Face of pulley	Diam. of flange	Diam. of shaft	Size of hole in saw	With pulley in center	With pulley on end
No. 1,	2 1/2 in.	3 3/4 in.	2 1/2 in.	1 1-16 in	1 in	\$ 7.00	\$ 7.70
" 2,	3 "	4 "	3 "	1 3-16 "	1 1/8 "	8.00	8.50
" 3,	3 1/2 "	4 1/2 "	3 1/2 "	1 5-16 "	1 1/4 "	8.50	9.00
" 4,	4 "	5 "	4 "	1 7-16 "	1 5-16 "	9.75	10.75
" 5,	4 1/2 "	5 1/2 "	4 1/2 "	1 7-16 "	1 5-16 "	11.00	12.00
" 6,	5 "	6 "	5 "	1 7-16 "	1 3/8 "	12.50	13.75
" 7,	5 1/2 "	6 1/2 "	5 1/2 "	1 7-16 "	1 3/8 "	13.75	15.00
" 8,	6 "	7 "	6 "	1 9-16 "	1 1/2 "	15.50	19.50
" 9,	7 "	8 "	6 "	1 11-16 "	1 5/8 "	21.50	23.50
" 10,	8 "	8 "	6 "	1 13-16 "	1 5/8 "	25.75	28.00

Extras for Circular Saws—★

See list on page 118.

Circular Saws for Bone or Ivory add 50 per cent. to above list.

No extra charge for Saws one gauge thicker than list.

Circular Saws 48 inches and larger, if made thinner than 10 gauge are not warranted, and add 10 per cent. for each gauge thinner than No. 10.

Circular Saws 42 inches and less in diameter beveled one gauge without extra charge; 44 inches and larger beveled two gauges without extra charge.

We will quote prices on Disston's Cross Cut Saws, Saw Mandrels, Swages, Lever Punch Saw Gummers and Lever Saw Shears.

ALL PRICES SUBJECT TO DISCOUNT.

Disston's Circular Saws—★

Patent ground and tempered solid tooth Circular Saws, of extra quality. Superior workmanship, and guaranteed as per warranty. New list prices taking effect Jan'y 1, '03.

Diameter Inches.	Thickness Gauge.	Size of hole Inch	Price each.	Extra for each addi- tional gauge (heavier).	Price for beveling new saws (grinding or beveling old saws extra.)	Extra for setting and sharpening if rip saw.	Extra for setting and sharpening if cross-cut saw.
per gauge							
1	24	$\frac{3}{8}$	\$0.55	\$0.01	\$0.06	\$0.15	\$0.20
1½	24	$\frac{3}{8}$	.60	.01	.07	.17	.23
2	23	$\frac{3}{8}$	.65	.01½	.08	.18	.25
2½	22	$\frac{3}{8}$	.70	.02	.09	.20	.28
3	21	$\frac{1}{2}$	.75	.02½	.10	.21	.30
3½	20	$\frac{1}{2}$	.85	.03	.12	.23	.32
4	19	$\frac{3}{4}$	1.10	.03	.14	.25	.35
5	19	$\frac{3}{4}$	1.30	.04	.16	.28	.40
6	18	$\frac{3}{4}$	1.55	.05	.18	.30	.45
7	18	$\frac{3}{4}$	1.85	.06	.20	.33	.50
8	18	$\frac{7}{8}$	2.20	.08	.22	.35	.55
9	17	$\frac{7}{8}$	2.75	.10	.25	.40	.60
10	16	1	3.30	.12	.28	.45	.65
11	16	1	3.80	.14	.30	.48	.70
12	15	1	4.15	.17	.35	.50	.75
14	15	$1\frac{1}{8}$	5.00	.21	.40	.60	.85
16	14	$1\frac{1}{8}$	6.00	.25	.50	.65	.95
18	13	$1\frac{1}{4}$	7.50	.30	.60	.70	1.05
20	13	15-16	9.00	.35	.70	.80	1.15
22	12	15-16	11.00	.45	.80	.90	1.30
24	11	$1\frac{3}{8}$	13.00	.55	.90	1.00	1.45
26	11	$1\frac{3}{8}$	15.00	.65	1.05	1.10	1.60
28	10	$1\frac{1}{2}$	17.00	.80	1.20	1.20	1.75
30	10	$1\frac{1}{2}$	19.00	.90	1.30	1.30	1.95
32	10	$1\frac{5}{8}$	22.00	1.00	1.40	1.40	2.05
34	9	$1\frac{5}{8}$	25.00	1.20	1.55	1.60	2.35
36	9	$1\frac{5}{8}$	28.00	1.40	1.70	1.70	2.55
38	9	$1\frac{5}{8}$	31.00	1.75	1.85	1.85	2.75
40	9	2	36.00	2.00	2.00	2.00	2.95
42	8	2	42.00	2.50	2.20	...	3.15
44	8	2	50.00	3.00	2.40	...	3.35
46	8	2	60.00	3.50	2.60	...	3.60
48	8	2	70.00	4.00	2.80	...	3.80
50	7	2	80.00	4.50	3.00	...	4.10
52	7	2	90.00	5.00	3.25	...	4.40
54	7	2	100.00	6.00	3.50	...	4.70
56	7	2	115.00	7.00	3.75	...	5.00
58	7	2	130.00	8.00	4.05	...	5.30
60	6	2	145.00	9.00	4.35	...	5.60
62	6	2	160.00	10.00	4.65	...	6.00
64	6	2	180.00	12.00	5.00	...	6.30
66	6	2	200.00	15.00	5.35	...	6.60
68	5	2	225.00	18.00	5.75	...	6.90
70	5	2	255.00	21.00	6.15	...	7.20
72	5	2	290.00	24.00	6.55	...	7.50
74	5	2	330.00	27.00	7.00	...	7.75
76	5	2	375.00	30.00	7.50	...	8.00

See extras on page 117.

ALL PRICES SUBJECT TO DISCOUNT.

King's Screw Plates—* With Taps and Dies.

* End Screw

† Side Screw

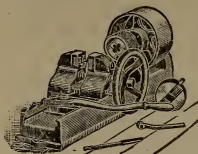
* No. 15	cuts $1\frac{1}{4}$ to $\frac{1}{2}$	inch, 8,	10,	12	threads.....	\$10 00
† " 19	" 1 to $\frac{3}{8}$	" 9,	12,	14	"	9 00
* " 23	" 1 to $\frac{3}{8}$	" 9,	10,	14	"	5 00
† " 27	" $\frac{3}{4}$ to $\frac{3}{8}$	" 10,	12,	16	"	6 50
* " 34	" $\frac{3}{4}$ to 5-16	" 10,	12,	16	"	4 50
* " 34A	" $\frac{3}{4}$ to 5-16	" 10,	12,	14	"	4 50
* " 34B	" $\frac{3}{4}$ to 5-16	" 12,	14,	16	"	4 50
* " 35	" $\frac{3}{4}$ to $\frac{3}{8}$	" 10,	14,	"	"	4 00
* " 37	" $\frac{5}{8}$ to 3-16	" 14,	13,	22	"	4 25
* " 37A	" $\frac{5}{8}$ to 3-16	" 12,	14,	16	"	4 25
* " 37B	" $\frac{5}{8}$ to 3-16	" 14,	16,	18	"	4 25
* " 41	" $\frac{1}{2}$ to $\frac{1}{8}$	" 16,	20,	26	"	3 25
* " 41A	" $\frac{1}{2}$ to $\frac{1}{8}$	" 14,	16,	18	"	3 25
* " 41B	" $\frac{1}{2}$ to $\frac{1}{8}$	" 16,	18,	20	"	3 25
† " 47	" $\frac{5}{8}$ to $\frac{1}{4}$	" 12,	14,	18	"	5 50
† " 51	" $\frac{1}{2}$ to 3-16	" 14,	18,	22	"	4 50
* " 53	" 5-16 to 1-16	" 16,	20,	24	32 threads.....	2 75
* " 55	" 5-16 to 1-16	" 18,	24,	32	"	2 50
† " 60	" $\frac{3}{4}$ to $\frac{1}{4}$	" 10,	12,	14	18 "	6 50

King's, Right and Left Hand—

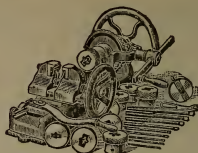
* No. 6	cuts $1\frac{1}{2}$ to 1 in., right, 8 threads.....	} \$20 00
"	$1\frac{1}{2}$ to 1 in., left, 8 "	
* " 11	" $1\frac{1}{4}$ to $\frac{5}{8}$ in., right, 8, 10 threads.....	} 10 00
"	$1\frac{1}{4}$ to $\frac{5}{8}$ in., left, 8 "	
* " 21	" 1 to $\frac{1}{2}$ in., right, 9 and 12 threads.....	} 6 00
"	1 to $\frac{3}{4}$ in., left, 9 "	
† " 25	" $\frac{3}{4}$ to $\frac{3}{8}$ in., right, 10, 12 threads.....	} 6 50
"	$\frac{3}{4}$ to $\frac{1}{2}$ in., left, 10 "	
* " 32	" $\frac{3}{4}$ to $\frac{3}{8}$ in., right and left, 10, 14 threads....	5 00
* " 33	" $\frac{3}{4}$ to $\frac{1}{2}$ in., right and left, 10 "	4 00
* " 38	" $\frac{5}{8}$ to 5-16 in., right, 12, 18 threads.....	} 4 50
"	$\frac{5}{8}$ to 7-16 in., left, 12 "	
* " 42	" $\frac{1}{2}$ to 3-16 in., right, 14, 20 threads.....	} 3 50
"	$\frac{1}{2}$ to 5-16 in., left, 14 "	
† " 45	" $\frac{5}{8}$ to 5-16 in., right, 12, 16 threads.....	} 5 50
"	$\frac{5}{8}$ to 7-16 in., left, 12, "	
† " 49	" $\frac{1}{2}$ to $\frac{1}{4}$ in., right, 14, 18 threads.....	} 4 50
"	$\frac{1}{2}$ to 5-16 in., left, 14, "	

ALL PRICES SUBJECT TO DISCOUNT.

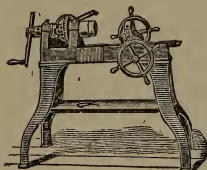
Little Giant Bolt Cutters and Nut Tappers—★



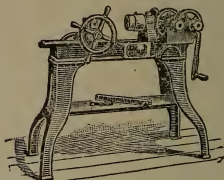
No. 0.



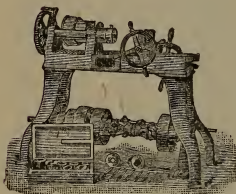
No. 7.



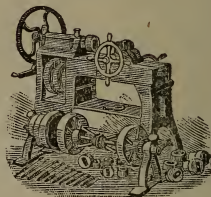
Nos. 8 & 8½.



No. 9.



Nos, 10 & 10½.



No. 12.

No. 0,	power, complete, cutting	$\frac{1}{4}$ to $\frac{5}{8}$ in.,	with legs.....	\$74.00
No. 0,	"	"	without legs.....	67.05
No. 6,	for hand, without legs, cutting	$\frac{1}{4}$ to $\frac{3}{4}$ in.	.....	50.00
No. 6,	"	with legs, "	$\frac{1}{4}$ to $\frac{3}{4}$ in.	57.00
No. 7,	"	without legs "	$\frac{1}{4}$ to 1 in.	70.00
No. 7,	"	with legs "	$\frac{1}{4}$ to 1 in.	77.00
No. 8,	"	" "	$\frac{1}{4}$ to 1 in.	90.00
No. 8 $\frac{1}{2}$,	"	" "	$\frac{1}{4}$ to 1 $\frac{1}{4}$ in.	108.00
No. 9,	"	" "	$\frac{3}{8}$ to 1 $\frac{1}{2}$ in.	140.00
No. 10,	hand and power, cutting	$\frac{1}{4}$ to 1 in.	.....	115.00
No. 10 $\frac{1}{2}$,	"	" "	$\frac{1}{4}$ to 1 $\frac{1}{4}$ in.	133.90
No. 12,	power,	" "	$\frac{3}{8}$ to 1 $\frac{1}{2}$ in.	165.00

These list prices on power machines include plain Countershaft complete. If furnished with Little Giant Friction Clutch, add \$10.00 to list prices.

Send for catalogue giving full information.

ALL PRICES SUBJECT TO DISCOUNT.

Send for Descriptive Catalogue of All Styles of New Little Giant Screw Plates.

All Taps and Dies for these Screw Plates are furnished with the following pitches unless otherwise ordered.

$\frac{1}{4}$	5-16	$\frac{3}{8}$	7-16	$\frac{1}{2}$	9-16	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$
20	13	16	14	12	12	11	10	9	8	7	7	6	6

We always furnish V form of thread unless U. S. Standard or Whitworth are specified.

New Little Giant Screw Plates—★



Nos. 1, 2, 3, 4, 5, $5\frac{1}{2}$, 6, 8, 20, 25 and 30, have one Adjustable Tap Wrench; Nos. 7, 9, 40 and 50, have two Adjustable Tap Wrenches. No extra charge made for these wrenches.

No. 1	Cuts $\frac{1}{4}$ to $\frac{1}{2}$ inch,	12, 14, 16, 18, 20 threads.....	\$12.00
" 2	" $\frac{1}{4}$ to $\frac{3}{8}$	" 10, 11, 12, 16, 20 "	13.50
" 3	" $\frac{5}{8}$ to 1	" 8, 9, 10, 11, "	15.00
" 4	" $\frac{1}{2}$ to 1	" 8, 9, 10, 11, 12 "	17.50
" 5	" $\frac{1}{4}$ to $\frac{3}{4}$	" 10, 11, 12, 14, 16, 18, 20 threads.....	16.00
" $5\frac{1}{2}$	" $\frac{1}{4}$ to $\frac{3}{4}$	" 10, 11, 12, 14, 16, 18, 20 threads, and includes 9-16 in.....	19.50
" 6	" $\frac{3}{8}$ to 1	" 8, 9, 10, 11, 12, 14, 16 threads.....	22.00
" 7	" $\frac{1}{4}$ to 1	" 8, 9, 10, 11, 12, 14, 16, 18, 20 threads	25.50
" 8	" $\frac{1}{4}$ to $\frac{3}{4}$	" 10, 11, 12, 14, 16, 18, 20 threads.....	18.00
" 9	" $\frac{1}{4}$ to 1	" 8, 9, 10, 11, 12, 14, 16, 18, 20 threads	27.50
" 20	" $\frac{1}{2}$ to $1\frac{1}{4}$	" 7, 8, 9, 10, 11	35.00
" 25	" $\frac{3}{8}$ to $1\frac{1}{2}$	" 6, 7, 8, 9,	45.00
" 30	" $1\frac{1}{8}$ to $1\frac{1}{2}$	" 6, 7,	37.50
" 40	" $\frac{1}{4}$ to $1\frac{1}{4}$	" 7, 8, 9, 10, 11, 12, 14, 16, 18, 20 "	40.00
" 50	" $\frac{1}{4}$ to $1\frac{1}{2}$	" 6, 7, 8, 9, 10, 11, 12, 14, 16, 18, 20 "	60.00

Nos. 8 and 9, 40 and 50, have two stocks.

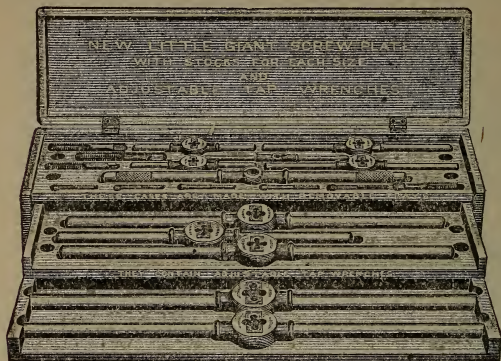
New Little Giant Screw Plates—★

Machinists' Sets with Taper, Plug and Bottoming Taps.

No. 101.	Cuts $\frac{1}{4}$, 5-16, $\frac{3}{8}$, 7-16, $\frac{1}{2}$ in.....	\$15.50
" 102.	" $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ in.....	18.00
" 103.	" $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 in.....	22.00
" 104.	" $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 in.....	25.00
" 105.	" $\frac{1}{4}$, 5-16, $\frac{3}{8}$, 7-16, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ in.....	23.00
" 106.	" $\frac{3}{8}$, 7-16, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 in.....	31.25
" 107.	" $\frac{1}{4}$, 5-16, $\frac{3}{8}$, 7-16, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 in.....	26.00
" 108.	" $\frac{1}{4}$, 5-16, $\frac{3}{8}$, 7-16, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ in.....	24.00
" 109.	" $\frac{1}{4}$, 5-16, $\frac{3}{8}$, 7-16, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 in.....	28.00
" 140.	" $\frac{1}{4}$, 5-16, $\frac{3}{8}$, 7-16, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{8}$, $1\frac{1}{4}$ in...	55.00
" 150.	" $\frac{1}{4}$, 5-16, $\frac{3}{8}$, 7-16, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{8}$, $1\frac{1}{4}$, $1\frac{3}{8}$, $1\frac{1}{2}$ in.....	84.00

Nos. 107, 109, 140 and 150 have two Adjustable Tap Wrenches; all the other Nos. have one. No extra charge for wrenches.

ALL PRICES SUBJECT TO DISCOUNT.

Full Stocked Little Giant Screw Plates—★

Each assortment is put up in a neat wood case with stock for each size, varying in length for the requirement of each die.

No. 61 cuts	$\frac{1}{4}$ to $\frac{1}{2}$ in.	12, 14, 16, 18, 20 threads...	\$12.00
" 62 "	$\frac{1}{4}$ to $\frac{3}{4}$ in.	10, 11, 12, 16, 20 "	15.50
" 65 "	$\frac{1}{4}$ to $\frac{3}{4}$ in.	10, 11, 12, 14, 16, 18, 20 threads	18.00
" 65½ "	$\frac{1}{4}$ to $\frac{2}{3}$ in.	like No. 65, with $\frac{1}{16}$, 12th added	20.00
" 66 "	$\frac{3}{8}$ to 1 in.	8, 9, 10, 11, 12, 14, 16 threads...	24.00
" 67 "	$\frac{1}{4}$ to 1 in.	8, 9, 10, 11, 12, 14, 16, 18, 20 threads	29.50
" 67½ "	$\frac{1}{4}$ to 1 in.	like No. 67 with 9-16, 12 threads added	32.00
" 640 "	$\frac{1}{4}$ to $1\frac{1}{4}$ in.	7, 8, 9, 10, 11, 12, 14, 16, 18, 20 threads	47.00
" 650 "	$\frac{1}{4}$ to $1\frac{1}{2}$ in.	6, 7, 8, 9, 10, 11, 12, 14, 16, 18, 20 threads	67.00

Tap Wrenches with each set without extra charge.

Extra Dies and Taps same as for New Little Giant Screw Plates.

Extra Guides, below $1\frac{1}{8}$ in.. 20c. each; above 1 in.. 50c. each.

Extra Stocks, in. $\frac{1}{4}$ to $\frac{3}{8}$ 7-16 to $\frac{3}{4}$ 13-16 to 1 $1\frac{1}{8}$ to $1\frac{1}{4}$ $1\frac{3}{8}$ to $1\frac{1}{2}$

Price, each... \$0.50 .75 1.00 1.75 2.25

Little Giant Model Makers' Screw Plates—★

No. A1, cuts	$\frac{1}{8}$ to $\frac{1}{4}$ in.	Tap Wrench included, 5 sizes....	\$6.50
" A2, "	$\frac{7}{64}$ to $\frac{1}{4}$ in.	" " 7 "	8.00
" A3, "	$\frac{7}{64}$ to $\frac{1}{4}$ in.	" " 10 "	10.00
Extra parts—Dies	Collets	Wrenches	Stocks
60c	40c	50c	70c each.
Taps, Wire Gauge, 2 to 12, 35c each.	Taps, 1-16 to 7-32 in., 35c each.		
	13 to 16, 38c "	$\frac{1}{4}$ to 9-32 in., 45c "	

Other assortments can be had.

These Plates have New Little Giant Taps and Dies which are pitched as follows:

7-64	$\frac{1}{8}$	9-64	5-32	11-64	3-16	13-64	7-32	15-64	$\frac{1}{4}$
56	40	40	36	36	24	24	24	24	20

Diameter of collets, $1\frac{1}{4}$ in.

ALL PRICES SUBJECT TO DISCOUNT.

Little Giant Adjustable Split Dies—★



For Bicycle and other small work. These Dies fit the Nos. B. D. F. Stocks on page 124

$\frac{5}{8}$ -in. diameter dies are furnished in number sizes from Gauge No. 1 to 14, inclusive, and fractional sizes from 3-32 to 17-64 in., inclusive, by 64ths.

13-16 in. diameter dies are furnished in all sizes from Gauge No. 1 to 16, inclusive, and fractional sizes from 3-32 to 9-32 in. inclusive, by 64ths.

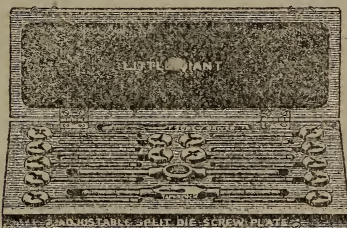
1 in. diameter dies are furnished in all sizes from Gauge No. 4 to 24, inclusive, and fractional sizes from 1-8 to 15-64 in., inclusive, by 64ths, and from 1-4 to 7-16 in., inclusive, by 32ds.

Prices of Dies:

5-8 and 13-16 in diameter.....\$0.40 each.
1 in. diameter......75 "

Prices of Taps, same as Machine Screw Taps, page 128.

In ordering dies always give the diameter wanted. Unless otherwise ordered, 13-16 in. diameter dies will be sent.



We can furnish assortments of Split Dies and Taps with Stock and Wrench, put up in neat wooden cases, as shown above. Select the size Stock wanted, as described on page 124, and state the sizes of dies and taps, and number of threads wanted.

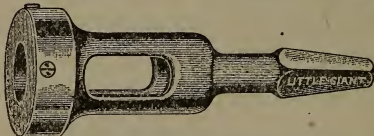
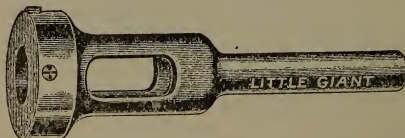
ALL PRICES SUBJECT TO DISCOUNT.

Little Giant Split Die Screw Plates—★

List prices of parts of Plates.

Stocks.**No. B.** For $\frac{5}{8}$ Dies. Whole length 5 in.. Price, \$0.50**No. D.** " $\frac{13}{16}$ " " " 6 " " .75**No. F.** " 1 in. " " " 9 " " 1.00

We sell these stocks separate from the plates in large quantities. They will fit any make of dies of above diameter.

Adjustable Tap Wrenches. ★**No. 1.** Hold Taps to No. 14 or $\frac{13}{16}$ inclusive.. Price, \$0.50**No. 2.** " " " " 16 " $\frac{9}{16}$ " " .75**No. 3.** " " " " 24 " $\frac{7}{8}$ " " 1.00**Die Holders for Bit Brace Use. ★****For Holding Split Dies. ★****No. 1.** For holding Dies $\frac{5}{8}$ diameter.... Price, \$0.75**No. 2.** " " " $\frac{13}{16}$ " " .75**No. 3.** " " " 1 in. " " 1.00

★

For Screw Machine or Lathe with $\frac{1}{2}$ or $\frac{41}{64}$ Inch Shanks.**No. 1.** For holding Dies $\frac{5}{8}$ diameter .. Price, \$0.50**No. 2.** " " " $\frac{13}{16}$ " " .50**No. 3.** " " " 1 in. " " 75Unless otherwise ordered $\frac{1}{2}$ inch shanked holders will be sent.
When ordering give SIZE NUMBER

ALL PRICES SUBJECT TO DISCOUNT.

**New Little Giant Collets,
Dies & Taps—For Bit Brace.***



	3-16	$\frac{1}{4}$	5-16	$\frac{3}{8}$	7-16	$\frac{1}{2}$ inch.
	\$1.90	1.90	1.95	2.25	2.35	2.70 each.
Extra Dies....	\$1.00	1.00	1.00	1.25	1.25	1.50 pair.
" Taps....	.50	.50	.55	.60	.70	.80 each.
" Collets,	.50 each.					

Stocks, For New Little Giant Screw Plates—*



Without the dies and collets.

$7\frac{1}{2}$ in. long for $1\frac{1}{4}$ in. diameter collets.....	\$0.70 each.
14 $\frac{1}{2}$ " " 2 in. "	1.50 "
23 " " 2 $\frac{3}{4}$ in. "	2.00 "
26 " " 2 $\frac{3}{4}$ in. "	2.00 "
29 " " 2 $\frac{3}{4}$ in. "	2.00 "
40 " " 4 in. "	6.00 "
52 " " 4 $\frac{1}{2}$ in. "	8.00 "

Western Chief Screw Plates, Full mounted—*

No. 1,	$\frac{1}{4}$, 5-16, $\frac{3}{8}$, 7-16, $\frac{1}{2}$ in.....	\$10.25
" 2,	$\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$ in.....	12.75
" 3,	$\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{2}$, 1 in.....	16.50
" 4,	$\frac{1}{2}$, 5-16, $\frac{3}{8}$, 7-16, $\frac{1}{2}$, $\frac{3}{4}$ in.....	14.90
" 5,	$\frac{1}{2}$, 5-16, $\frac{3}{8}$, 7-16, $\frac{1}{2}$, 9-16, $\frac{3}{8}$, $\frac{1}{2}$ in.....	18.00
" 6,	$\frac{3}{8}$, 7-16, $\frac{1}{2}$, $\frac{3}{8}$, $\frac{1}{2}$, 1 in.....	21.50
" 7,	$\frac{1}{2}$, 5-16, $\frac{3}{8}$, 7-16, $\frac{1}{2}$, $\frac{3}{8}$, $\frac{1}{2}$, 1 in.....	24.50
" 8,	$\frac{1}{2}$, 5-16, $\frac{3}{8}$, 7-16, $\frac{1}{2}$, 9-16, $\frac{3}{8}$, $\frac{1}{2}$, 1 in.....	28.50

Each of above assortments has a stock for each size die.

No. 9,	$\frac{1}{2}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, 1 $\frac{1}{8}$, 1 $\frac{1}{4}$ in., 4 stocks.....	\$26.50
" 10,	$\frac{3}{8}$, 7-16, $\frac{1}{2}$, $\frac{3}{8}$, $\frac{1}{2}$, 1, 1 $\frac{1}{8}$, 1 $\frac{1}{4}$ in., 5 stocks.....	30.00
" 11,	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, 1 $\frac{1}{4}$, 1 $\frac{1}{2}$ in., 4 stocks.....	28.50
" 12,	$\frac{1}{2}$, 5-16, $\frac{3}{8}$, 7-16, $\frac{1}{2}$, $\frac{3}{8}$, $\frac{1}{2}$, 1, 1 $\frac{1}{8}$, 1 $\frac{1}{4}$, 1 $\frac{3}{8}$, 1 $\frac{1}{2}$ in., 5 stocks.....	55.00
" 13,	$\frac{3}{8}$, 1, 1 $\frac{1}{8}$, 1 $\frac{1}{4}$, 1 $\frac{3}{8}$, 1 $\frac{1}{2}$ in., 2 stocks.....	40.00

All above Nos. except No. 13 have Tap Wrenches,

Chicago Screw Plates—*

Set "C," cuts $\frac{1}{4}$ to $\frac{3}{4}$, 7 taps and 7 dies.....\$14.75

EXTRA TAPS AND DIES.

Size.....	$\frac{1}{4}$	5-16	$\frac{3}{8}$	7-16	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$
Taps.....	\$0.45	.50	.55	.60	.70	.90	1.20
Dies.....	\$1.15	1.20	1.25	1.30	1.35	1.40	1.40
Stock, \$2.00.							

ALL PRICES SUBJECT TO DISCOUNT.

Little Giant Plate Taps and Dies—★

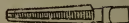
	Tap. Each.	Die. Each.		Tap. Each.	Die. Each.
3-16 in.	\$0 35	\$1 00	$\frac{3}{4}$ in.	\$1 20	\$2 00
$\frac{1}{4}$ in.	45	1 00	13-16 in.	1 40	2 00
5-16 in.	50	1 00	$\frac{7}{8}$ in.	1 60	2 75
$\frac{3}{8}$ in.	55	1 25	15-16 in.	1 80	2 75
7-16 in.	60	1 25	1 in.	2 00	2 75
$\frac{1}{2}$ in.	70	1 50	$1\frac{1}{8}$ in.	2 25	4 00
9-16 in.	80	1 50	1 1-4 in.	2 60	4 00
$\frac{5}{8}$ in.	90	1 75	$1\frac{3}{8}$ in.	3 00	5 00
11-16 in.	1 05	1 75	$1\frac{1}{2}$ in.	3 50	5 00

Collets, for New Little Giant Screw Plates—★

For Nos. A1, A2, A3.....	\$ 40 each.
" 1 to 9.....	50 "
" 20 to 50	1 50 "

Diameter of Collets—

For Stocks.. $7\frac{1}{2}$	$14\frac{1}{2}$	23	26	29	40	52 in. long.
Diameter.... $1\frac{1}{4}$	2	$2\frac{3}{4}$	$2\frac{3}{4}$	$2\frac{3}{4}$	4	$4\frac{1}{2}$ in.

**King's Blacksmiths' Taper
and Plug Taps—★**

$\frac{1}{8}$ to 5-16	$\frac{3}{8}$	7-16 and $\frac{1}{2}$	9-16 and $\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1 inch.
30	35	40	50	65	90	\$1 25 each.

King's Dies—★

Per pair. Per set.

For No. 6	Plate	\$3 00	\$6 00
" 11 & 15	"	1 00	3 00
" 19	"	84	2 50
" 21 & 23	"	84	2 00
" 25, 27, 32	"	75	2 25
" 33	"	75	1 50
" 34	"	75	2 00
" 35, 37, 38, 41, 42	"	75	1 50
" 45 & 47	"	75	2 25
" 49 & 51	"	67	2 00
" 53	"	67	1 50
" 55	"	67	1 50
" 60	"	75	3 00

Stove Bolt Taps—★

Size, inches	5-32	3-16	7-32	1-4	5-16	3-8
Threads	28	24	22	18	18	16
Price, each	35c.	35c.	35c.	38c.	38c.	45c.

ALL PRICES SUBJECT TO DISCOUNT.

Little Giant Pipe Stocks and Dies—*

Prices of Stock and Die complete.



Views of stock, die and guide.

No. 80, for $\frac{1}{8}$ in. pipe, length of stock 9 in.....	\$1.75
No. 81, for $\frac{1}{4}$ " " " 13 $\frac{1}{2}$ in.....	1.75
No. 82, for $\frac{3}{8}$ " " " 23 in.....	2.25
No. 83, for $\frac{1}{2}$ " " " 26 in.....	2.25
No. 84, for $\frac{3}{4}$ " " " 32 in.....	3.00
No. 85, for 1 " " " 36 in.....	3.00
No. 86, for 1 $\frac{1}{4}$ " " " 41 in.....	4.50
No. 87, for 1 $\frac{1}{2}$ " " " 46 in.....	5.50
No. 88, for 2 " " " 52 in.....	7.25

Each size sold separately or assortments in sets, as desired.

When ordering give number of assortment and size. Right hand dies will always be sent unless otherwise ordered.

To adjust, simply turn in or out the screws at ends of dies as adjustment desired requires.

An important feature of this plate is the fact that the guides are replaceable.

List prices of parts—

Size,	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2 in.
Dies,	\$1.00	1.00	1.25	1.25	1.25	1.25	2.00	2.50	3.00
Guides,	.25	.25	.25	.25	.50	.50	.75	.75	.75
Stocks,	.50	.50	.75	.75	1.25	1.25	1.75	2.25	3.50

Left hand dies furnished at same prices.

Little Giant Pipe Stocks and Dies—*

In sets, put up in nice wooden cases.

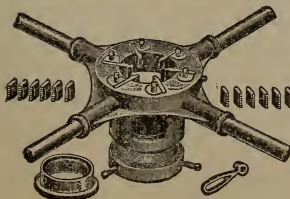
No. 1: cutting $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1 in., 1 stock \$9.00No. 2, cutting 1 $\frac{1}{4}$, 1 $\frac{1}{2}$, 2 in. 1 stock \$15.00

Extra parts, No. 1 No. 2

Stock alone, \$2.00 \$5.25

Dies, each size 1.25 3.00

Guides, " .50 .75



No. Cutting Price

P 20 2 $\frac{1}{2}$, 3 in... \$40.00P 21 2 $\frac{1}{2}$, 3, 3 $\frac{1}{2}$, 4 50.00P 22 3 $\frac{1}{2}$, 4 in .. 40.00

Extra parts—

Dies, per set of 6 pieces.....9.00

Bushings, each.....1.50

Stock wrench, each.. .75

Collar, set or leader screw, each .. .25

ALL PRICES SUBJECT TO DISCOUNT.

Pipe Screw Plates, Malleable, Solid Die—★

"C,"	1/4 to 1 in.	\$15.00
"D,"	1 to 1 1/2 in.	13.50
"E,"	1 1/4 to 2 in.	20.00

Pipe Reamers—★

Same sizes and list prices as Pipe Taps.

**Pipe Taps—★**

1/8	1/4	3/8	1/2	3/4	1 inch.		
\$1.12	1.25	1.50	1.87	2.50	3.12 each.		
1 1/4	1 1/2	2	2 1/2	3	3 1/2	4 inch.	
\$3.75	4.62	6.25	10.50	15.00	42.00	50.00 each.	

**Machine Screw Taps—★**

App'xi- mate Dia. ter. F'tl's of anln.	Screw Gauge Sizes. N'mber	Number of Threads to Inch	PRICES.	
			Each.	Per Doz.
	1	56, 60, 64, 72	\$0.35	\$4.00
	2	48, 56, 64	.35	4.00
	3	40, 44, 48, 56	.35	4.00
7-64	4	30, 32, 36, 40, 42, 44, 48	.35	4.00
	5	30, 32, 36, 40, 44, 48	.35	4.00
9-64	6	30, 32, 36, 38, 40, 44, 48	.35	4.00
	7	24, 28, 30, 32, 36, 40	.35	4.00
5-32	8	24, 30, 32, 36, 40, 44	.35	4.00
	9	24, 28, 30, 32	.35	4.00
3-16	10	20, 22, 24, 28, 30, 32, 36	.35	4.00
	11	22, 24, 28, 30	.35	4.00
7-32	12	20, 22, 24, 26, 28, 30, 32, 34, 36	.35	4.00
	13	20, 22, 24, 32	.38	4.40
1/4	14	16, 18, 20, 22, 24, 26	.38	4.40
	15	18, 20, 22, 24	.38	4.40
17-64	16	16, 18, 20, 22, 24, 26	.38	4.40
	17	16, 18, 20	.38	4.40
9-32	18	16, 18, 20, 22, 24, 26	.38	4.40
	19	16, 18, 20, 22, 24	.38	4.40
5-16	20	16, 18, 20, 22, 24	.45	5.30
	22	16, 18	.45	5.30
3/8	24	14, 16, 18, 20, 22, 24	.45	5.30
	26	14, 16	.53	6.30
	28	14, 16	.53	6.30
	30	14, 16	.53	6.30

Less than six of a size will be charged as single taps.

Other SIZES and THREADS are special. Prices on applica-
tion.When ordered, taps will be furnished in sets—Taper, Plug,
and Bottoming—like sets of Hand Taps.

ALL PRICES SUBJECT TO DISCOUNT.

Machine Nut Taps—★



Sizes.	Price, Each.	Whole Length.	Number of Threads to Inch, "V" Form.
$\frac{3}{16}$	\$0.60	4 Inch.	24, 32
$\frac{7}{16}$	.60	$4\frac{1}{2}$ "	18, 20, 22, 24
$\frac{1}{2}$	.70	5 "	16, 18, 20
$\frac{9}{16}$	.80	5 "	14, 16, 18
$\frac{5}{8}$	.90	6 "	12, 14, 16
$\frac{3}{4}$	1.00	7 "	12, 13, 14
$\frac{7}{8}$	1.15	$7\frac{3}{4}$ "	11, 12, 14
$\frac{15}{16}$	1.30	8 "	10, 11, 12
1	1.45	$9\frac{1}{4}$ "	10, 11, 12
$1\frac{1}{16}$	1.60	$9\frac{1}{4}$ "	10, 11, 12
$1\frac{1}{8}$	1.80	10 "	9, 10
$1\frac{1}{4}$	2.10	10 "	9, 10, 12
$1\frac{3}{8}$	2.40	11 "	8, 9, 12
$1\frac{1}{2}$	2.80	11 "	8, 10, 12
$1\frac{5}{8}$	3.20	13 "	7, 8, 10, 12
$1\frac{3}{4}$	3.70	13 "	7, 10, 12
$1\frac{7}{8}$	4.20	14 "	6, 10, 12
2	4.70	14 "	6, 10, 12
$2\frac{1}{16}$	5.30	$14\frac{3}{4}$ "	5, $5\frac{1}{2}$
$2\frac{1}{8}$	6.00	$15\frac{1}{2}$ "	5
$2\frac{1}{4}$	6.80	$16\frac{1}{4}$ "	$4\frac{1}{2}$, 5
$2\frac{3}{8}$	7.70	17 "	$4\frac{1}{2}$, 5
$2\frac{1}{2}$	9.00	18 "	$4\frac{1}{2}$
$2\frac{5}{8}$	10.20	18 "	$4\frac{1}{2}$
$2\frac{3}{4}$	11.50	19 "	$4\frac{1}{2}$
$2\frac{7}{8}$	12.50	19 "	4
3	14.00	$19\frac{1}{2}$ "	4
$3\frac{1}{16}$	15.00	$19\frac{1}{2}$ "	4
$3\frac{1}{8}$	16.50	21 "	4
$3\frac{1}{4}$	18.00	21 "	$3\frac{1}{2}$
$3\frac{3}{8}$	19.75	21 "	$3\frac{1}{2}$
$3\frac{1}{2}$	21.50	21 "	$3\frac{1}{2}$
$3\frac{5}{8}$	23.00	21 "	$3\frac{1}{2}$
$3\frac{3}{4}$	25.00	21 "	$3\frac{1}{2}$
$3\frac{7}{8}$	27.00	21 "	$3\frac{1}{4}$
4	29.50	21 "	3
$4\frac{1}{8}$	31.00	21 "	3
$4\frac{1}{4}$	33.50	21 "	3

U. S. S. and Whitworth forms of thread of regular pitch furnished at same prices.

V form of thread will be sent unless otherwise ordered.

ALL PRICES SUBJECT TO DISCOUNT.

Easy and New Easy Bolt Clippers—★



No.1.	Easy	cuts	to	$\frac{3}{8}$	in	.....	\$5.00	each.
" 2.	"	"	"	$\frac{1}{2}$	"	.....	7.00	"
" 0.	New	Easy	cuts	to	5-16	in	.....	3.75
" 2.	"	"	"	$\frac{1}{2}$	"	.....	7.00	"
" 3.	"	"	"	$\frac{5}{8}$	"	.....	9.00	"

The New Easy Clippers are adjusted by set screws obviating the use of shims and a special wrench.

Chambers' Bolt Clippers—★



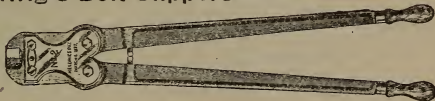
No.1	cuts	to	$\frac{3}{8}$	in.	..	\$7.50	each.
" 2	"	"	$\frac{1}{2}$	"	..	9.50	"
" 3	"	"	$\frac{5}{8}$	"	..	12.00	"
" 4	"	"	$\frac{3}{4}$	"	..	15.00	"

Randall's New Bolt Clippers—★



No. 0	cuts	to	5-16	in.	.....	\$3.75	each.
" 3	"	"	$\frac{3}{8}$	"	.....	5.00	"
" 4	"	"	$\frac{1}{2}$	"	.....	7.00	"
" 5	"	"	$\frac{3}{4}$	"	.....	10.00	"

Helwig's Bolt Clippers—★



No. 1	cuts	to	$\frac{3}{4}$	in.	.....	\$13.00	each.
" 2	"	"	9-16	"	.....	9.00	"
" 3	"	"	$\frac{1}{2}$	"	.....	7.00	"
" 4	"	"	$\frac{3}{8}$	"	.....	5.00	"
" 5	"	"	5-16	"	.....	3.70	"

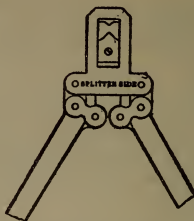
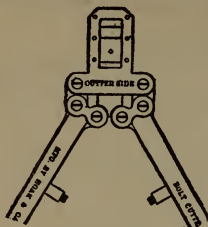


Magic Bolt Clippers—

Cuts to $\frac{1}{2}$ in. \$5.00 each.

We can furnish extra parts for any of above Bolt Clippers.
ALL PRICES SUBJECT TO DISCOUNT.

Nut Splitters and Bolt Clippers—



Cutter side. Splits a nut as easily as it cuts a bolt.
 Cuts to $\frac{3}{8}$ inch bolts. Two tools in one.
 Price\$6.50 each.
 Extra End Knife95 "
 Extra Bolt Knife95 "
 Extra Nut Splitter95 "

Bolt Clipper Knives—★

For Nos.	Price per pair.				
	0	1	2	3	4
Chambers,		\$.80	\$1.00	\$1.50	1.50
Easy	\$1.00	1.25	1.75	2.25	....
Randall's.....	1.20	....	....	1.50	2.00
Helwig's .....	....	3.00	2.25	1.75	1.25

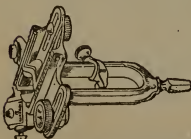
Spoke Pointers, Stearns'—★



No.0, small, points to $1\frac{1}{8}$ in. ..\$6.50 per doz.
 " 1, points to $1\frac{1}{8}$ in. with graduated adjustable shank.... 9.00 "
 No.1 $\frac{1}{2}$, points to $1\frac{5}{8}$ in. plain shank, with adjustable stop. 7.50 "
 No.2, points to $2\frac{5}{8}$ in. with graduated adjustable shank.15.00 "

Dowel Pointers—★

Stearns', points to $\frac{3}{4}$ in.\$4.50 per doz.



Cincinnati Hollow Augers—★

A very strong tool with graduated adjustable stop.
 Cuts $\frac{1}{4}$ to $1\frac{1}{2}$ in. tenons.
 No. 1. \$56.00 per doz.

ALL PRICES SUBJECT TO DISCOUNT.

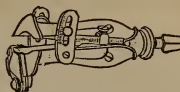
Stearns' Hollow Augers—★



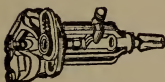
Stearns' No. 0.



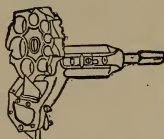
Stearns' No. 1.



Stearns' No. 2.



Stearns' No. 3.



No. 4 Bonney's.



No. 6. Cuts One Size.

Stearns' No. 0, $\frac{1}{4}$ to $1\frac{1}{4}$ in. tenons \$48.00 per doz.

" " 1, $\frac{3}{8}$ to 1 in. tenons 48.00 "

" " 2, $\frac{3}{8}$ to 1 in. " 48.00 "

" Nos. 3 and 50, $\frac{1}{4}$ to $1\frac{1}{4}$ in. tenons. 60.00 "

" New No. 33, $\frac{1}{4}$ to $1\frac{1}{4}$ in. tenons.. 72.00 "

" No. 4, Bonney's, $\frac{3}{8}$ to 1 in. tenons.. 48.00 "

" New No. 44 Bonney's, $\frac{3}{8}$ to 1 in. tenons. 48.00 "

Nos. 0, 2, 3, 6 and 50 have graduated adjustable stops.

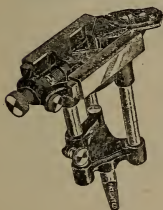
Nos. 1 and 4 have adjustable stops.

Nos. 33 and 44 have graduated adjustable stops, and the new adjustable knives.

Stearns' No. 6. cutting one size— Without bits.

For tenons 5-16	$\frac{3}{8}$	7-16	$\frac{1}{2}$	9-16	$\frac{5}{8}$	$\frac{3}{4}$
\$8.00	8.00	8.00	8.00	9.00	9.00	9.00

$\frac{7}{8}$ in.	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$ in.
13.00	\$13.00	14.00	14.00	16.00	16.00 per doz.

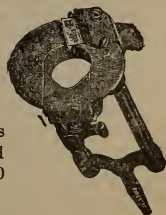


Wood's "Universal" Hollow Augers—★

No. B1. Every part of this tool is steel. All wearing parts and screws are hardened. Cuts from $\frac{1}{4}$ to $1\frac{1}{4}$ in. tenons any length to four inches and any thickness of chip.....\$54.00 per doz.

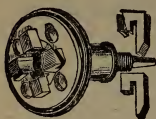
Wood's "Ideal" Hollow Augers—★

No. A4 All steel wearing parts and screws are hardened. Made for heavy work and cuts from $1\frac{1}{8}$ to $1\frac{1}{2}$ in. tenons. \$24.00 per doz.



ALL PRICES SUBJECT TO DISCOUNT.

Star Hollow Augers—★



Star No. 1, 7-16 to 1 in., with adjustable shank.....	\$7.00 each.
Star No. 1, 7-16 to 1 in., without adjustable shank.....	6.00 "
Star No. 2, $\frac{5}{8}$ to $1\frac{1}{4}$ in. tenons	13.00 "
" " 3, $\frac{3}{4}$ to $1\frac{1}{2}$ in. "	15.00 "
" " 4, $1\frac{1}{4}$ to 2 in. tenons	
6 in. long.....	20.00 "

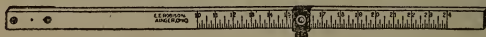
Nos. 1 and 2 can be furnished with a plain bit brace shank at 50c. each added to list price.

Nos. 2, 3 and 4 will not take adjustable shanks.

Hollow Auger Knives and Blanks—

	Knives.	Blanks.
Star No. 1.....	\$1.70	\$1.00 per pair.
" Nos. 2, 3 and 4.....	2.55	1.35 "
Dole's No. 1.....	1.70	1.00 "
" " 2.....	1.70 each,	1.70 "

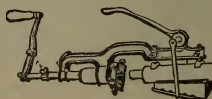
Robinson's Spoke Marking Gauges—



A graduated wood rule $26\frac{1}{2}$ inches in length, with an adjustable head, having a steel point on the under side for marking the spokes. It can be set for any length of spoke. It can also be used for marking a circle of any size up to 48 inches in diameter. In marking spokes, set the right hand edge of the head even with the graduation, and in marking a circle set the left hand edge even. 70c each.

Spoke Tenoners—

Peace's Patent.....	\$13.00
" Felloe Boring	
Attachment, extra....	1.00
Tenons $\frac{3}{8}$ to $1\frac{1}{4}$ in.	



Jewel Spoke Tenoning Frame—

This is a simple but strong tool. The frame is made of malleable iron. The end of the shaft is threaded. No. 3 Stearns' Hollow Auger or any other Auger having a similar thread can be attached.

Price, without Auger\$1.50 each.

ALL PRICES SUBJECT TO DISCOUNT.

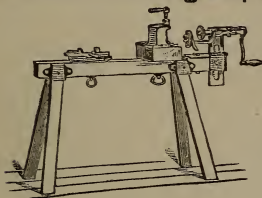


Universal Tenon and Boring Machines—

For hand and power.

Is an upright machine 84 in. high; can be placed against a wall or in center of shop. Hole in spindle $\frac{1}{2}$ inch. Takes in wheels up to 4 ft. 6 in. high. Fed by foot pressure. Provided with belt shifter and tight and loose pulleys 7x2 $\frac{3}{4}$ in. Speed 900. Bores to center of 24 in. Weight 160 lbs. Has hand wheel which can be removed when power is used. Adjustable table for boring straight or bevel work. A stop on vertical spindle regulates length of tenons and depth of holes. Feeds 7 inches. Has attachment for holding spokes firmly. Price.....\$16.00

Dole and Deming's Spoke Tenoners—*



No. 1.

No.1 With Felloe boring Attachment.....\$23.00

No.1 Without F. B. Attachment..... 18.00

This is a hand power machine fitted with a No. 1 Star Hollow Auger, cutting from $\frac{3}{8}$ to 1 in. tenons.

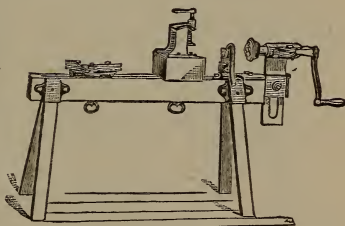
No. 2. With Felloe Boring Attachment....\$32.00

No. 2. Without F. B. Attachment....\$25.00

This is a hand power machine fitted with a No. 2 Star Hollow Auger cutting from $\frac{5}{8}$ to 1 $\frac{1}{4}$ in. tenons.

No. 2 $\frac{1}{2}$. With Felloe Boring Attachment \$35.00

No. 2 $\frac{1}{2}$ Without F. B. Attachment.....\$28.00



Nos. 2 and 2 $\frac{1}{2}$.

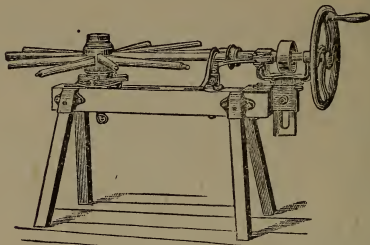
No. 2 $\frac{1}{2}$ is a hand power machine fitted with a No. 3 Star Hollow Auger, cutting from $\frac{3}{4}$ to 1 $\frac{1}{2}$ in. tenons.

If desired Nos. 2 and 2 $\frac{1}{2}$ machines can be furnished with a No. 1 auger and a reducer at an extra charge of \$8.00 added to list prices. This gives No. 2 machine a range of 7-16 to 1 $\frac{1}{4}$ in. tenons and No. 2 $\frac{1}{2}$ machine 7-16 to 1 $\frac{1}{2}$ in. tenons.

ALL PRICES SUBJECT TO DISCOUNT.

Dole and Deming's Spoke Tenoners—★

continued.



No. 3. Hand and Power.

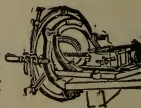
No. 3 With Felloe Boring Attachment and No. 1 and No. 2 Augers, cutting tenons 7-16 to 1¼ inches diameter, 4 inches long.....	\$45.00
No. 3½ With Felloe Boring attachment and No. 1 and No. 3 Augers, cutting tenons 7-16 to 1½ in. diameter, 4 inches long.....	\$50.00
No. 4 With Felloe Boring Attachment and No. 2 and No. 4 Augers, cutting tenons ¾ to 2 inches diameter, 6 inches long.....	60.00
No. 4½ With Felloe Boring Attachment and No. 1, No. 2 and No. 4 Augers, cutting tenons 7-16 to 2 inches diameter, 6 inches long.....	68.00
Nos. 3 and 3½ furnished without No. 1 Auger and Reducer at reduction of.....	8.00
Any of the above sizes furnished without Felloe Boring Attachment at reduction of.....	7.00
Nos. 3 and 3½ arranged to cut tenons 6 inches long, additional.....	5.00
Suitable countershaft, with tight and loose pulleys, for these machines.....	10.00
Balance wheel with all power machines, which should be removed when power is applied.	



Front view. wedging required

Little Giant "Special" Hub Borers—★

The latest improvement, the "Tiger Jaw," centers the hub instantly. Trues the rim perfectly. They bore any kind of hole, in any hub, for any axle. No



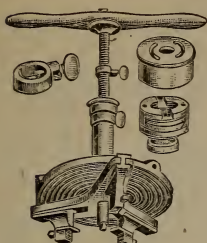
Side view.

No. 2, special for light and medium work.....	\$35.00
" 3, special for light, medium and farm wagon work	45.00
Extra knives, 50c. each.	

ALL PRICES SUBJECT TO DISCOUNT.

Dole's Old Standard Hub Borers—*

With Silver's Patent Open Feed Nut.



No. 1 Suitable for buggy and carriage work, grasp hubs 2 to 6 in. diameter \$20.00

No. 2 Suitable for buggy, carriage and wagon work. Will grasp hubs 2 to 12 in. diameter..... 23.00

No. 3 Suitable for heavy wagon work. Will grasp hubs 2½ to 15 in. diameter 27.00

With old style solid feed nut instead of open feed nut.

No. 1 Suitable for buggy and carriage work.....\$16.00

No. 2 Suitable for buggy, carriage and wagon work.. 19.00

No. 3 Suitable for heavy wagon work..... 22.00

Extra Mandrels and Bits—

For Dole's Hub Borers.

Mandrel turned small at the end for lightest class of work, with one set of bits\$5.10

Extra bits for No. 1.....\$1.00 per set.

" " " " 2..... 1.30 "

" " " " 3..... 1.45 "

Silver's Old Standard Hub Borers—*

No. 1 For medium and heavy work, up to 11x 13-inch hubs\$25.00

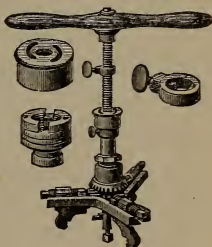
No. 1½ For medium and heavy work, up to 13x16-inch hubs 30.00

No. 2 For extra heavy work, up to 16x24-inch hubs..... 35.00

The No. 1 machine will bore holes 1¾ to 5 inches diameter, 6½ inches deep, and will grasp hubs 2 to 9½ inches diameter, measuring at the end.

No. 1½ will bore holes 1¾ to 5 inches diameter, 8 inches deep, and will grasp hubs 3 to 12½ inches diameter, measuring at the end.

The No. 2 is intended only for very large, heavy wheels. It will bore 2½ to 6 inches diameter, 12½ inches deep, and will grasp hubs 9 to 14½ inches diameter, measuring at the end.



Extra Mandrels and Bits—

For Silver's Hub Borers.

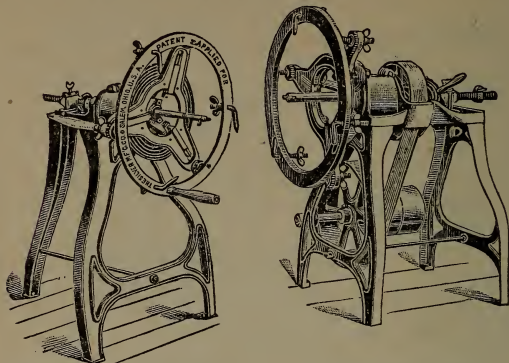
Extra mandrel and bits for light work, for No. 1...\$5.10

Bits per set (four), for No. 1 and No. 1½..... 1.30

Bits per set (four), for No. 2..... 1.70

ALL PRICES SUBJECT TO DISCOUNT.

Silver's New Taper Hub Borers—★



Nos. 2 and 3. For Hand.

Hand and Power.

For Hand and Hand and Power.

With self centering hub chuck and opening feed nut. Centers the hub instantly and accurately.

No. 2 For light and medium work, up to $7\frac{1}{4} \times 10$ -inch hubs, mounted on legs as shown, weight 100 lbs. \$35.00

No. 2 For light and medium work, up to $7\frac{1}{4} \times 10$ -inch hubs, without legs, to mount on bench, weight 50 lbs. 30.00

No. 3 With two mandrels, for light and heavy work, up to $9\frac{1}{2} \times 13$ -inch hubs, mounted on legs as shown, weight 170 lbs. 45.00

No. 3 With two mandrels, for light and heavy work, up to $9\frac{1}{2} \times 13$ -inch hubs, without legs, to mount on bench, weight 120 lbs. 40.00

No. 3 will be found as well adapted to light buggy wheels as the largest work for which it is recommended.

Silver's New Taper Hub Borers for Hand and Power, same general description as No. 3 for Hand Power. Weight 325 lbs. \$75.00

Capacity is ten to twelve sets of wheels per day.

The countershaft is made a part of the machine, and is provided with tight and loose pulleys and belt as shown. The face plate is provided with a handle, which adapts the machine also for hand use.

Size of pulleys on countershaft, 12x3 inches.

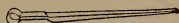
Speed for countershaft, 100 to 125 revolutions per minute.

Extra Bits—

For Silver's New Taper Hub Borers Nos. 2 and 3 for hand, and power and hand. Per set of four bits. \$1.70

ALL PRICES SUBJECT TO DISCOUNT.

"S. D. K." Hub Reamers—



Made of best tool steel and warranted.

1 1/2	inch across widest part, 18 inch pod.....	\$ 6.30 each.
1 3/4	" " " 18 " ".....	7.35 "
2	" " " 20 " ".....	9.00 "
2 1/4	" " " 20 " ".....	10.15 "
2 1/2	" " " 20 " ".....	11.25 "
2 3/4	" " " 24 " ".....	14.85 "
3	" " " 24 " ".....	16.20 "

Band Setters—★

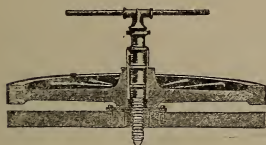


Cincinnati, will fit from 2 to 8 in. diameter and cut from 1/4 to 1 1/4 in. band.....\$2.00 each.

Box Pullers—★

Abbott's 5/8 and 3/4 in. Mandrel.....\$6.00

Should be used with the Little Giant Hub Borer.



Tecktonius' Box Press—★

No. 1, 1 1/4 in. screw, from 1 1/2 to 3 1/2 in. boxes....\$8.00
No. 2, 3/4 in. screw, from 15-16 to 1 1/2 in. boxes... 5.00

Hub Boxing Gauges—



Matern's No. 1, for buggy axles.....\$3.25
" " 2, " express axles..... 3.50
" " 3, " thimble skeins..... 3.50

Wills' Axle Gauges—



The quickest and handiest gauge made. Always ready; always right. No complications.....\$10.00

Reynold's Axle Gauges—

FIG. 1.



It adjusts itself to the spindle and registers the exact amount of set or gather on the indicator plate in inch measure. Can be adjusted to any length axle. Is accurate and durable and easy to handle. Can be used without taking axle off vehicle

Price\$8.00

ALL PRICES SUBJECT TO DISCOUNT.

Badger Axle Setters—



The simplest machine of its kind on the market. Strong and durable. Made of malleable iron throughout. Will bend the axle at any point or in any direction. Fits any axle from $\frac{3}{4}$ to $1\frac{1}{4}$ inch.

Price.....\$8.00

Dalton's Axle Cutters—*

Complete with screw handle stock, 3 sets R. & L. dies, 3 sets cutters, 2 collets and set screws, 10-inch hack saw and 3 blades and wooden tool chest.....\$15.00



Vulcan Anvils—*

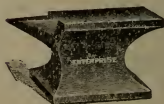


The body is made from superior pig iron. The face is one solid piece of tool steel, thoroughly welded to the body and warranted not to separate. The horn is covered with and the point made of untempered cast steel.

No. 00 about 5 lbs. \$2.00	No. 8 about 80 lbs. \$ 8.00
" 0 " 10 " 2.75	" 9 " 90 " 9.00
" 1 " 15 " 3.25	" 10 " 100 " 10.00
" 2 " 20 " 4.00	" 11 " 110 " 11.00
" 3 " 30 " 4.50	" 12 " 120 " 12.00
" 4 " 40 " 5.25	" 13 " 130 " 13.00
" 5 " 50 " 6.00	" 14 " 140 " 14.00
" 6 " 60 " 6.50	" 15 " 150 " 15.00
" 7 " 70 " 7.25	" 17½ " 175 " 17.50
	" 20 " 200 " 20.00

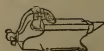
Handy Anvils—*

A serviceable little anvil, cast metal with chilled face, 3x5 inches
Price.....\$1.00 each.

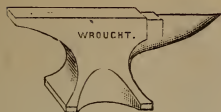


Cheney's Anvils and Vises Combined—*

No. 10, 2½ in jaws, 9 lbs., open 3 in. \$3.50 each	
" 20, 3½ in. " 25 lbs., " 4 in. 4.50 "	
" 30, 4 in. " 35 lbs., " 5 in. 5.50 "	
" 40, 4½ in. " 50 lbs., " 6 in. 6.50 "	



ALL PRICES SUBJECT TO DISCOUNT.

**Wrought Anvils—**

Hay-Budden Manufacturing Co.'s
Steel faced, properly tempered.
Warranted not to separate at the
waist. Only one weld.

80 to 425	pounds inclusive, base sizes....	16	c. per lb.
426 to 625	"	advance	1½c. "
626 to 800	"	"	1 c. "
70 to 79	"	"	1½c. "
60 to 69	"	"	1 c. "
50 to 59	"	"	2 c. "
40 to 49	"	"	3 c. "
30 to 39	"	"	5 c. "
20 to 29	"	"	8 c. "
10 to 19	"	"	15 c. "

We are convinced that it is no longer necessary to import Anvils. These Anvils are produced by American workmen and are superior in quality, form and finish to any imported or other American Anvils.

Approximate measurement of Blacksmiths' anvils:

Weights.		Face.		Square	Round
80 pounds.	12½ in. long.	3⅜ in. wide.		Hole.	Hole.
100 "	13½	3½	"	7⁄8	7-16 in.
125 "	15	3¾	"	7⁄8	9-16 "
150 "	16½	4	"	7⁄8	9-16 "
175 "	17½	4¼	"	1	9-16 "
200 "	18	4½	"	1⅛	9-16 "
225 "	19	4⅝	"	1⅛	9-16 "
250 "	19½	4¾	"	1⅛	9-16 "
300 "	20	5	"	1¼	11-16 "
350 "	22	5½	"	1¼	11-16 "
400 "	23	6	"	1⅝	11-16 "
450 "	24	6½	"	1⅝	11-16 "
500 "	25	6¾	"	1½	13-16 "
600 "	25	7	"	1½	13-16 "

"S.D.K." Farriers' Anvils—

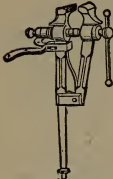
Wrought Iron, Heavy Steel Faced

Specially made for us from our own pattern.

The only perfect anvil for horseshoers. We carry in stock from 115 to 180 lb. anvils, but lighter or heavier ones can be made to order. Price of regular weights.....18c. per lb.

ALL PRICES SUBJECT TO DISCOUNT.

Vises, Blacksmiths' Solid Box—*

	Weights.	Jaws.	
	25 lbs.	3 $\frac{3}{8}$ in.	\$12 00 each
	30 lbs.	3 $\frac{1}{2}$ in.	11 00 "
	35 lbs.	3 $\frac{7}{8}$ in.	10 00 "
	40 lbs.	4 in.	10 50 "
	45 lbs.	4 $\frac{1}{8}$ in.	11 00 "
	50 lbs.	4 $\frac{1}{4}$ in.	11 50 "
	55 lbs.	4 $\frac{1}{2}$ in.	12 00 "
	60 lbs.	4 $\frac{3}{4}$ in.	13 00 "
	65 lbs.	4 $\frac{7}{8}$ in.	14 00 "
	70 lbs.	5 in.	15 00 "
	75 lbs.	5 in.	16 00 "
	80 lbs.	5 $\frac{1}{4}$ in.	17 50 "
	85 lbs.	5 $\frac{1}{2}$ in.	18 50 "
	90 lbs.	5 $\frac{3}{4}$ in.	20 00 "
	95 lbs.	5 $\frac{7}{8}$ in.	21 00 "
	100 lbs.	6 in.	22 00 "
	105 lbs.	6 in.	23 00 "
	110 lbs.	6 $\frac{1}{4}$ in.	24 00 "
	115 lbs.	6 $\frac{1}{2}$ in.	25 00 "
	120 lbs.	6 $\frac{3}{8}$ in.	26 00 "
	125 lbs.	6 $\frac{1}{2}$ in.	27 50 "
	130 lbs.	6 $\frac{3}{4}$ in.	29 00 "
	135 lbs.	6 $\frac{7}{8}$ in.	31 50 "
	140 lbs.	7 in.	33 00 "
	145 lbs.	7 in.	35 00 "
	150 lbs.	7 in.	36 00 "
	160 lbs.	7 $\frac{1}{4}$ in.	41 50 "
	170 lbs.	7 $\frac{1}{2}$ in.	44 50 "
	180 lbs.	8 in.	47 00 "
	190 lbs.	8 in.	53 00 "
	200 lbs.	8 in.	56 00 "

B.S. Solid Box.

"S. D. K." Farriers' Vises—*

Bevel jaw, holdfast on the short leg, bringing long leg in front.

	50	55	60	65	70	75	80 lbs.
"S. D. K."	\$15.00	16.50	18.00	19.50	21.00	22.50	24.00 each.

Eagle Chain Vises—*

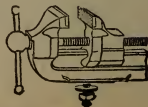
No.	Weight.	Jaws.	Screws.	Opens.	Price
2	65 lbs.	4 $\frac{1}{2}$ in.	1 in.	5 $\frac{1}{2}$ in.	\$10.50
3	90 "	5 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "	6 $\frac{1}{2}$ "	16.00
4	120 "	6 $\frac{1}{4}$ "	1 $\frac{1}{4}$ "	7 $\frac{1}{2}$ "	20.50
5	160 "	7 "	1 $\frac{1}{2}$ "	9 "	27.00
6	210 "	8 "	1 $\frac{1}{2}$ "	12 "	32.00

Wise Boxes and Screws—*

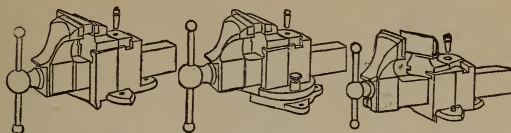
No.	Diam. Screws.	For Vises. About.	Price.
1	1 in.	25 to 40 lbs.	\$3.50 each.
1 $\frac{1}{2}$	1 $\frac{1}{8}$ "	45 " 50 "	4.00 "
2	1 $\frac{1}{4}$ "	55 " 65 "	4.00 "
3	1 $\frac{3}{8}$ "	70 " 80 "	4.50 "
4	1 $\frac{1}{2}$ "	85 " 115 "	6.50 "
5	1 $\frac{3}{4}$ "	120 " 145 "	8.00 "
6	1 $\frac{3}{4}$ "	150 " 190 "	9.50 "
7	2 "	195 " 200 "	11.00 "

**Cipsy Vises—* Opens. Wgt. lbs.**

No. 65,	2 $\frac{1}{2}$ inch jaws	3	8	\$1 75 each.
" 66,	3 $\frac{1}{2}$ "	4	14	2.50 "
" 67,	4 "	6	38	4 00 "



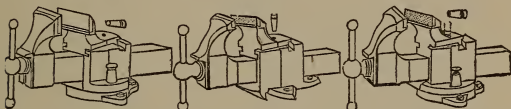
ALL PRICES SUBJECT TO DISCOUNT.

Prentiss Machinists' Vises—★

Nos. 1 to 6

Nos. 18 to 23

Nos. 12 and 10



Nos. 27 and 26

No. 42

No. 47

				Opens	Weight,
No. 20, 1 $\frac{3}{4}$ inch Jaws, Stationary Bottom,				1 $\frac{3}{4}$ in.	 \$3 50
" 32, 2 "	"	"	"	2 in.	 4 00
" 1, 2 $\frac{5}{8}$ "	"	"	"	3 $\frac{1}{2}$ in.	13 $\frac{1}{2}$ lbs. 5 50
" 2, 3 $\frac{1}{2}$ "	"	"	"	4 $\frac{3}{4}$ in.	28 lbs. 7 00
" 2 $\frac{1}{2}$, 4 "	"	"	"	5 $\frac{1}{4}$ in.	41 lbs. 9 00
" 3, 4 $\frac{1}{2}$ "	"	"	"	6 in.	54 lbs. 10 50
" 4, 5 $\frac{1}{4}$ "	"	"	"	8 in.	96 lbs. 17 00
" 5, 6 "	"	"	"	9 in.	140 lbs. 24 00
" 6, 7 "	"	"	"	11 in.	184 lbs. 30 00
" 35, 1 $\frac{3}{4}$ "	Swivel	"	"	1 $\frac{3}{4}$ in.	 4 50
" 37, 2 "	"	"	"	2 in.	 5 00
" 18, 2 $\frac{5}{8}$ "	"	"	"	3 $\frac{1}{2}$ in.	17 lbs. 6 75
" 19, 3 $\frac{1}{2}$ "	"	"	"	4 $\frac{3}{4}$ in.	32 lbs. 8 50
" 19 $\frac{1}{2}$, 4 "	"	"	"	5 $\frac{1}{4}$ in.	46 lbs. 10 50
" 20, 4 $\frac{1}{2}$ "	"	"	"	6 in.	65 lbs. 12 50
" 21, 5 $\frac{1}{4}$ "	"	"	"	8 in.	109 lbs. 19 00
" 22, 6 "	"	"	"	9 in.	168 lbs. 27 00
" 23, 7 "	"	"	"	11 in.	207 lbs. 35 00

Nos. 30 and 32, same construction as No. 1. Nos. 35 and 37, same construction as No. 18.

Prentiss Coachmakers' Vises—★

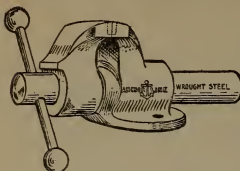
			Opens	Weight,
No. 12, 3 $\frac{1}{2}$ in. Jaws, Stationary Bottom,			7 in.	30 lbs. \$ 8 00
" 10, 4 $\frac{1}{2}$ "	"	"	9 $\frac{1}{2}$ in.	59 lbs. 11 00
" 27, 3 $\frac{1}{2}$ "	Swivel	"	7 in.	34 lbs. 9 50
" 26, 4 $\frac{1}{2}$ "	"	"	9 $\frac{1}{2}$ in.	67 lbs. 13 00

Prentiss Filers' Vises—★

No. 42, 4 $\frac{1}{4}$ in. Jaws, Stationary Bottom,	5 $\frac{1}{4}$ in.	42 lbs.	\$8 00
" 47, 4 $\frac{1}{4}$ " Swivel	5 $\frac{1}{4}$ in.	47 lbs.	11 00

In ordering extra front jaws for Prentiss Vises, state whether dog or collar fastening, and give the exact square of the sliding bar of jaw.

ALL PRICES SUBJECT TO DISCOUNT.

Prentiss "Anchor Line" Vises—★

Wrought Steel Cylindrical slides
Non-breakable.

No.	jaws.	opens.	w'g't.	Price
300	1 1/4 in.	1 1/2 in.	1 lb.	\$2.00
302	2 "	2 1/2 "	3 1/2 "	2.75
303	2 1/2 "	4 "	9 1/2 "	3.25
304	3 "	4 1/2 "	16 "	4.50
305	3 1/2 "	5 "	22 "	6.00
306	4 "	6 1/2 "	33 "	7.50
307	4 1/2 "	7 1/2 "	46 "	10.00
308	5 "	8 "	70 "	12.50

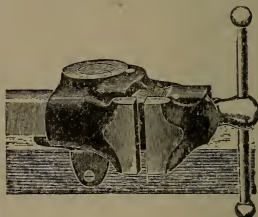
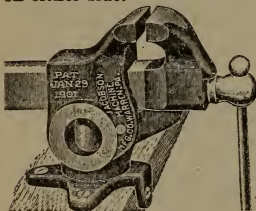
No. 326. Woodworkers' Vise, 4 1/2 in. jaws, opens 12 inches. Weight 47 lbs. \$10.50

Swivel Base Attachment can be furnished as follows:

No. 1. For Vise No. 300.	30c. each.
" 2. For Vises Nos. 302, 303	30c. "
" 3. For Vises Nos. 304, 305, 306, 307 and 326.	50c. "
" 4. For Vise No. 308.	75c. "

Jacobson Universal Friction Vises—★

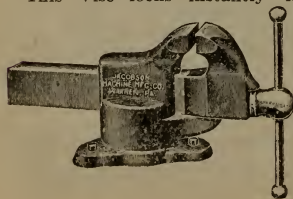
These Vises can be used in three positions—upright or on either side.



1 1/2 in. jaws.	2 in. open.	3 lbs.	\$5.50 each.
2 1/2 "	2 1/2 "	8 "	7.50 "
3 "	4 "	30 "	10.50 "
3 1/2 "	5 "	45 "	12.75 "
4 "	6 "	64 "	15.75 "
4 5/8 "	6 1/2 "	77 "	19.50 "
5 1/4 "	10 "	104 "	27.00 "

Jacobson Friction Swivel Bottom Vises—★

This Vise locks instantly in any position without dropping the work. It is used only in the upright position and does not turn on the sides like the "Universal" pattern above.



jaws.	open.	lbs.	each.
in.	in.		
1 1/2	2	3	\$ 4.75
4	6	68	13.50
4 5/8	8	80	16.50
5 1/4	10 1/2	128	24.00
6	12 1/2	155	36.00

ALL PRICES SUBJECT TO DISCOUNT.

ILLUSTRATIONS OF PARKER'S VISES.



No. 40½



No. 41



No. 46½



Nos. 42 & 42½



No. 44



Nos. 30 to 36



Nos. 000x to 5x and 60



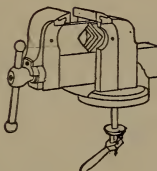
Nos. 19 to 22



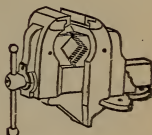
Nos. 21x to 26x



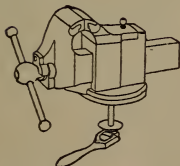
No. 86



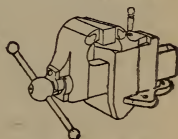
Nos. 87 & 88



Nos. 88½ & 89½



No. 240. Victor.



No. 340. Victor.

For prices see pages 146 and 147.

Victor Vices have swivel back jaw.

PARKER'S VISES—Continued—★

(See Illustrations, page 145.)

Parker's Parallel Vises—

No.	000x	1x	2x	3x	4x	5x	60
Jaw.....	3¼	3¾	4¼	4¾	5½	6¼	8½
Weight, lbs.	28	45	58	74	104	134	240
Each.....	\$6.25	7.00	9.00	11.75	16.25	24.00	50.00

Parker's Parallel Swivel Base Vises—

No.	19	20	21	22
Jaw.....	2	2¼	3½	3¾
Weight, lbs.	8	8½	23	35
Each.....	\$4.00	5.00	7.00	8.75

These Vises have Parker's Patent Cast Steel Anvils.

Parker's Parallel Swivel Base Vises—

No.	21x	22x	23x	24x	25x	26x
Jaw.....	3¼	3¾	4¼	4¾	5½	6¼
Weight, lbs..	32	50	65	87	130	160
Each.....	\$7.00	8.75	11.00	14.50	20.50	30.00

Parker's Filers' Vises—

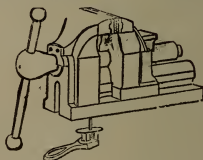
No.	42	42½	44
Jaw.....	4	3¼	4
Weight, lbs.	33	30	37
Each.....	\$7.25	6.75	8.75

Parker's Jewelers' Vises—

No. 16, Clamps to bench, 1½ in. jaw, 2¾ lbs.....	\$3.00
No. 18, Swivel bottom, 1½ in. jaw, 2¾ lbs.....	3.50

Parker's Chipping Vises—

No.	65	66
Jaw.....	5	6
Weight, lbs..	80	110
Each.....	\$16.00	24.00

**Parker's Heavy Railway Vises—**

No. 260, Swivel Base, jaw 8½, opens 12½ in., 250 lbs.	\$55.00
---	---------

Parker's Coachmakers' Vises—

No.	40½	41	46½
Jaw.....	4½	4½	4½
Opens	9½	9	9½ in.
Each.....	\$10.25	14.00	12.50

ALL PRICES SUBJECT TO DISCOUNT.

PARKER'S VISES, Continued—*

See Illustrations on page 145.

Parker's Heavy Victor Vises—

For railroad and machine shops.

- No. 340, Flat Base, jaw $7\frac{1}{2}$ in., opens 12 in., 185 lbs. \$30.00
 " 240, Swivel Base, jaw $7\frac{1}{2}$ in., opens 12 in., 200 lbs. 35.00

Parker's Pipers' Vises, Swivel Base—

With interchangeable jaws.

- No. 81, Round jaws, both swivel, 60 lbs. \$12.50
 " 82, Pipers' jaws, " 63 lbs. 12.50
 " 83, Round Pipers' and Coachmakers' jaws, 91 lbs. 16.00
 " 86, " Pipers' jaws, both swivel, 76 lbs. 14.75

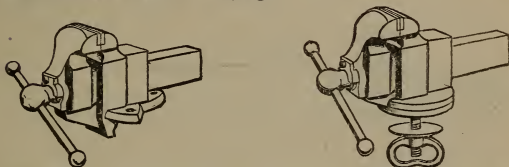
Combination Vises with Round and Pipers' jaws.

- No. 87, 2 in. pipe, Swivel Base, $3\frac{5}{8}$ in. jaw, 41 lbs. 16.00
 " 88, 3 " " $4\frac{1}{8}$ " 59 " 20.00
 " $88\frac{1}{2}$, 4 " Flat Base, $4\frac{3}{4}$ " 94 " 28.00
 " $89\frac{1}{2}$, 6 " " $5\frac{3}{8}$ " 141 " 35.00
 " $288\frac{1}{2}$, 4 " Swivel Base, $4\frac{3}{4}$ " 105 " 28.00
 " $289\frac{1}{2}$, 6 " " $5\frac{3}{8}$ " 155 " 35.00

Parker's Vises in Green Color do not have Parker's Improvements.

Parker's Heavy Railway Vises, Green Color—

- No. 600, Flat Base, jaws $8\frac{1}{4}$ in., 240 lbs. \$45.00
 " 160, Swivel Base, jaws $8\frac{1}{4}$ in., opens $12\frac{1}{2}$ in., 250 lbs. 50.00

Parker's Vulcan Vises—

Designed to supply the demand for a strong, medium-priced vise.

Patent Parallel Stationary. Round Jaws.

No.....	A	B	C	D	E	F	G
Jaws, inch.....	$3\frac{3}{4}$	$3\frac{5}{8}$	$4\frac{1}{8}$	$4\frac{5}{8}$	5	$5\frac{1}{2}$	6
Opens, inch.....	$4\frac{1}{2}$	5	$5\frac{1}{2}$	$6\frac{1}{2}$	7	$8\frac{1}{2}$	$9\frac{1}{2}$
Weights, lbs.....	25	28	46	60	74	100	135
Price, each.....	\$6 00	7 00	8 50	10 00	13 00	18 50	25 00

Patent Parallel Swivel. Round Jaws.

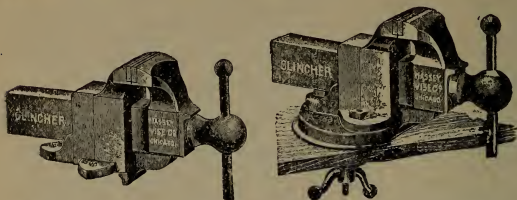
No.....	AA	BB	CC	DD	EE	FF	GG
Jaws, inch.....	$3\frac{3}{4}$	$3\frac{5}{8}$	$4\frac{1}{8}$	$4\frac{5}{8}$	5	$5\frac{1}{2}$	6
Opens, inch.....	$4\frac{1}{2}$	5	$5\frac{1}{2}$	$6\frac{1}{2}$	7	$8\frac{1}{2}$	$9\frac{1}{2}$
Weights, lbs.....	28	37	$52\frac{1}{2}$	66	86	115	156
Price, each.....	\$7 50	8 75	10 50	12 50	16 00	22 00	30 00

Parker's Coachmakers' Vises, Green Color—

- Parallel, No. 4000, jaw 4 in., opening 8 in. \$10 00
 Swivel, No. 4600, jaw 4 in., opening 8 in. 12 50
 Same patterns as Nos. $40\frac{1}{2}$ and $46\frac{1}{2}$.

ALL PRICES SUBJECT TO DISCOUNT.

Massey's Clincher Vises—★



No. 30, Flat Base, $3\frac{1}{4}$ in. jaws, 4 in. open., 22 lbs...	\$ 6 00 each.
" 31, " $3\frac{5}{8}$ " 5 " 29 " ...	7 00 "
" 32, " $4\frac{1}{8}$ " $5\frac{1}{2}$ " 40 " ...	8 50 "
" 33, " $4\frac{3}{8}$ " $6\frac{1}{4}$ " 55 " ...	10 00 "
" 34, " 5 " 7 " 70 " ...	13 00 "
" 35, " $5\frac{3}{8}$ " $8\frac{1}{2}$ " 95 " ...	17 50 "
" 36, " 6 " $9\frac{1}{2}$ " 135 " ...	25 00 "

Add to above list prices for Swivel Bases.

Nos.....	30	31	32	33	34	35	36
	\$1 50	1 75	2 00	2 50	3 00	3 50	5 00



Massey's Coachmakers' Vises—★

No. 18, Lightning Grip Coach Vise, $4\frac{1}{2}$ in. jaws, open 10 in. \$10 00

Massey's Woodworkers' Vises—★



Each.
No. 17. 9 inch jaws,
opens 12 inches ...\$6 00
No. 19. $6\frac{1}{2}$ in. jaws,
opens 7 inches 4 50

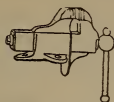
Massey's Perfect Grip Pipe Vises—★

For Pipe. Swivel Base.
No. 25 $3\frac{1}{2}$ inch jaws to 2 inch pipe...\$16 00
" 26 $4\frac{1}{2}$ " " 3 " 20 00



ALL PRICES SUBJECT TO DISCOUNT.

Illinois Parallel Vises—★

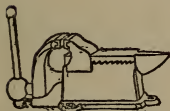


Machinists'.



Coachmakers'.

Jaw.....	2½	3	3½	4	4½	5	6 in.
Weight ...	15	21	32	44	51	59	150 lbs.
Opens	2½	3½	4½	4½	5	7	8 in.
Price.....	\$5.50	6.50	7.50	8.50	9.50	10.50	20.00
Coachmakers' 4½ in. jaw, weight 52 lbs., opens 9 in. \$8.00							



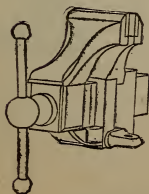
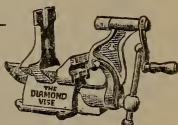
Diamond Vise and Anvil Combined—

Weight, 38 lbs., 4 in. jaws,
7x3 in. face.....\$4.00 each.

Diamond Drill Attachments—

To fit above Diamond Vise and
Anvil.

Drill attachment alone.....\$2.20



Holland's Coachmakers' Vises—★

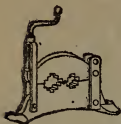
With Off-set Jaws.

No. 90, 4½ in. jaw, opens 9 in.,
60 lbs.....\$11.00

ALL PRICES SUBJECT TO DISCOUNT.

Saw Filers Vises—★

Stearns' No. 1, 9 in. planed jaws, screw fastening..\$21.00 per doz.
 " No. 33, 10 in. " clamp "
 and ball and socket adjustment to light... 18.00 "



Enterprise Pipe Vises—★

Holds $\frac{3}{8}$ to 2 in. pipe. Can be used also as a pipe jack for suspending pipe in a well.....\$3.00



Malleable Iron Pipe Vises—★

Interchangeable jaws. Opens on a hinge.
 No.1, holds pipe $\frac{1}{8}$ to 2 in.\$10.00 each.
 " 2, " " $\frac{1}{8}$ to 3 in. 14.00 "



B. & F. Foot Vises, Horseshoers'—★

No. 1, Head $5 \times 3\frac{3}{4}$ in.\$12.00
 " 2, " $4 \times 3\frac{3}{4}$ in. 10.00

These Vises have solid steel head which may be reversed, so as to present jaws of different bevels.



Champion Foot Vises, Horse-shoers'—★

Steel Head which can be reversed for winter sharpening.

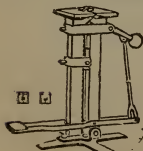
No. 1.....\$14.40



Foot Vises and Bolt Headers—★

Horseshoers' and blacksmiths'.
 Weight 165 pounds.

Little Giant, with both shoeing and bolt heading dies.....\$20.00
 " with shoeing dies only..... 17.00
 " with bolt heading dies only. 17.00



Bolt Headers—B. & P's. ★

No. 1, with iron dies $\frac{1}{4}$, 5-16, $\frac{3}{8}$, 7-16, $\frac{1}{2}$, 9-16, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{1}{2}$, 1 in. Weight, 225 lbs.. \$40.00

No. 2, with iron dies $\frac{1}{4}$ to $1\frac{1}{2}$. Weight, 400 lbs 60.00

Steel dies, \$2.50 each.

ALL PRICES SUBJECT TO DISCOUNT.

Mandrels, "S. D. K." Pattern—

No. 1,	32 in. high.	8 in. base,	55 lbs.....	\$3.58 each.
" 1½,	40 in.	" 10 in.	" 90 lbs.....	5.85 "
" 2,	48 in.	" 12 in.	" 115 lbs.....	7.48 "
" 3,	52 in.	" 14 in.	" 140 lbs.....	9.10 "
" 4,	54 in.	" 16 in.	" 200 lbs.....	13.00 "



Mandrels, Cheney Pattern—

With Slot running the whole length, convenient for handling rings with tongs.

No. 1,	32 in. high.	8 in. base.	60 lbs.....	\$4.50 each.
" 1½,	40 "	10 "	100 "	7.50 "
" 2,	48 "	12 "	125 "	9.38 "
" 3,	52 "	14 "	150 "	11.25 "
" 4,	54 "	16 "	220 "	16.50 "



Swage Blocks, "S. D. K." Pattern—

No. 1,	12x12x3½ in.,	100 lbs.....	\$5.00 each.
" 2,	15x15x4 in.,	150 lbs.....	7.50 "
" 3,	18x18x4½ in.,	250 lbs.....	12.50 "



Little Giant—★



	Nos. 1	2	3
Nos.....	1	2	3
Measurements.....	18x18x4	15x15x4	11x11x4 in.
Not planed.....	\$11.00	\$7.00	\$4.00
Planed both sides...	13.00	8.50	5.00

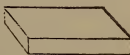
With Block and Base cast solid in one piece.

Whole height 16 in.

	11	12	13
Nos.....	11	12	13
Measurements.....	18x18x4	15x15x4	11x11x4
Not planed.....	\$15.50	\$12.00	\$7.25
Planed both sides.....	17.50	13.50	8.25

Leveling Blocks, Cast Iron—

	Planned on one side.	Per lb.
No. 1,	16x24x1½ in., weight about 135 lbs....	.5c.
" 2,	18x24x1½ in., " 155 lbs.	.5c.



If Ribbed on bottom, 5½c. per pound.

Blocks 2 or 2½ in. thick furnished to order.

ALL PRICES SUBJECT TO DISCOUNT.

Bellows, Chicago—★



Standard Pattern.

Width	Each	Width	Each
20 to 24 in.....	\$10.00	36 in.....	\$18.00
26 in.....	11.00	38 in.....	20.00
28 in.....	12.00	40 in.....	23.00
30 in.....	13.00	42 in.....	27.00
32 in.....	14.00	44 in.....	32.00
34 in.....	16.00		

Extra Long Pattern, Extra Quality.

Width	Each	Width	Each
28 in.....	\$14.00	40 in.....	\$28.00
30 in.....	15.00	42 in.....	34.00
32 in.....	17.00	44 in.....	40.00
34 in.....	19.00	46 in.....	45.00
36 in.....	21.00	48 in.....	50.00
38 in.....	24.00	50 in.....	60.00

Special Pattern, Open Extra Wide.

Inches wide	34	36	38	40
Each.....	\$16.00	18.00	20.00	23.00
Moulders' Bellows.....	10	12	14	in.
	\$15.00	18.00	24.00	per dozen.



“S. D. K.” Farriers’ Pride Bellows—★

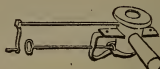
Extra quality leather, opens extra wide, nailed with large head bellows nails.

Standard pattern	36	38	40 in. wide.
Price each.....	\$18.00	20.00	23.00

Tuyere Irons—



★Warren's, \$2.20



★Norton's, \$2.00

Clark's—★



No. 1, for light fire.....	\$1.30 each.
“ 2, “ medium fire.....	1.55 “
“ 3, “ heavy “.....	1.80 “
“ 4, “ extra heavy fire.....	2.60 “



Light.



Heavy.

★Single Duck Nest.

Light.....67c each.

Heavy.....84c “

★Double Duck Nest, \$1.00 each

Sutton's—★

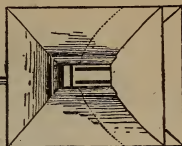
A Tuyere Iron and Fire Pot combined....\$3.50 each.



ALL PRICES SUBJECT TO DISCOUNT.

Thompson Tuyere Irons —

Weight 50 lbs.
Fire Bowl, 15x15x5½ in. deep.
By operating a
slide any length of
fire from 2 to 14 inches
may be obtained.
Specially adapted to
horse shoe and plow work.



Tuyere Iron with Bowl\$7.50

Square Head Tuyere Irons—★

No. 1.	3	x5½ in.,	16 lbs	\$0.75 each.
" 2.	3¼	x6¼ "	21 "	 1.00 "
" 3.	3¾	x7 "	25 "	 2.00 "

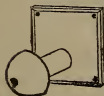


Wrought Iron Water Tuyere Irons—★



Nos.	1	2	3	4	5
Lengths...	12	13½	15	16½	18 in.
Price.....	\$4.00	4.50	5.50	6.00	7.50 each.

Prices include pipes and lock nuts. Larger sizes made to order.



Globe Head Tuyere Irons and Plates—★

Globe Head, alone	\$1.10 each.
Plate, alone.....	1.20 "



Dole's Water Tuyere Irons—★

With pipes.....	\$5.00
Without pipes.....	3.00

Root's Acme Tuyere Iron and Fire Beds—★

No. 3.	15x15 in.,	ordinary work	 \$6.50
" 4.	18x18 "	heavy	 8.00



Diamond "F" Tuyere Irons—★

Ball Valve	\$2.10 each.
------------------	--------------



Gallagher Tuyere Irons—★

A combined tuyere iron and fire bed.
Easily placed in forge, requiring neither
brick nor clay. Weight 75 lbs.

Price	\$5.00
-------------	--------

Fire Pots—

Power's	\$1.35
S. D. K. Pattern, similar style, but heavier casting, larger bowl.....	\$2.00 each.



ALL PRICES SUBJECT TO DISCOUNT.



Royal Western Chief Tuyere Irons—

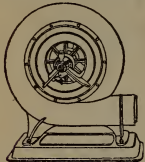
A Tuyere Iron and Fire Bed combined. No brick or clay required to set it.

Dimensions inside, 9 x 11½ in. by 4 in. deep.

Price..... \$6.00

Holt's Tuyere Irons—

This is a Tuyere Iron and Fire Bed combined, and is a quick heater. Has a dump grate and a valve with three slots, for regulating the blast to suit the work. The indicator on end of rod shows which size slot is up. Fire Pot is 1¼ in. thick and 4½ in. deep. Fine for bellows.....\$7.50



Buffalo Steel Pressure Power Blowers—★

We will quote prices on Countershafts, Pulleys and Hangers complete for any of these Blowers, and furnish the same when wanted.

No.	1	2	3	4	5	6	7	8	
Size	12½	16	20	24	26	30	35	40	in.
	\$12.00	18.00	26.00	36.00	44.00	55.00	70.00	90.00	ea.

Countershafts for above—★

Nos.	1	2	3	4	5	6	7	8
	\$8.00	10.00	12.00	16.00	20.00	25.00	30.00	40.00

Nos. 1 to 6 inclusive, have one drive pulley.

Nos. 7 and 8 have two drive pulleys.

Buffalo Blacksmiths' Power Blowers—★

No. 00, 8 in., 1 fire	\$8.00 each.
" 0, 12 in., 2 fires.....	10.00
" ½, 18 in., 4 "	14.00



Western Chief Power Blowers—★

No. F2, 16½ in. high. Like those on hand blowers	\$13.00
" P1, 10 in. Capacity one forge fire	12.00
" P3, 18 in. " four "	20.00
" P5, 24 in. " seven "	33.00

Countershafts for above—★

No. P1, Diam. Drive Pulley, 10¼ in. Belt Pulley, 4 in.....	\$8.00
" P3, " " " 14 " " 6 in.....	12.00
" P5, " " " 18 " " 7 in.....	16.00

Buffalo Blast Gates—★

Outside Measurements.

	2	2½	3	4	5	6	8	in.
	\$1.00	1.25	1.50	2.00	2.25	2.50	3.50	each.



ALL PRICES SUBJECT TO DISCOUNT.

Western Chief Blast Gates—★

Outside Measurements.							8 in. each.
2½	3	4	4½	5	6	7½	
\$1.25	1.50	1.75	2.00	2.25	2.50	3.25	

Western Chief Hand Blowers—★



A and D



B and E



C and F



G

Western Chief, with Tuyere Iron—

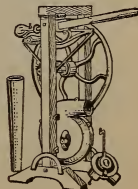
A	16½	inch Fan, lever and crank.....	\$32.00
B	16½	" " lever.....	27.00
C	16½	" " crank.....	27.00
D	14½	" " lever and crank.....	28.50
E	14½	" " lever.....	23.50
F	14½	" " crank.....	23.50
G	16½	" " ".....	35.00

A countershaft on the "G" blower gives a high rate of speed to the fan and prevents the slipping of belts. The best "Big Wheel" Blower made.

On all Western Chief Blowers the shafts and boxes are taper fitted. Brass boxes and oil cups throughout.

Champion B. S. Hand Blowers—★

1894 "Leader," wood frame, lever motion. With tuyere iron and pipe.....\$12.00



ALL PRICES SUBJECT TO DISCOUNT.

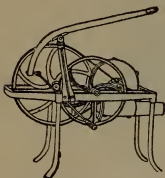
BLOWERS—
Continued.



Root's Acme.



Buffalo, No. 3.



Buffalo, Nos. 2 and 4.



Buffalo, No. 5.

- | | |
|--|---------|
| *Root's No. 3 Acme, with tuyere and fire bed..... | \$30.00 |
| “ “ without “ “ | 25.00 |
| Root's blowers give a positive force blast. | |
| *Buffalo, No. 2, with tuyere iron, Lever..... | 32.00 |
| “ “ 3, “ “ | 25.00 |
| “ “ 4, “ “ | 36.00 |
| “ “ 5, Crank “ | 20.00 |



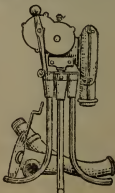
Royal "H" Western Chief Blowers—★

Simple, noiseless and durable. Steel gears perfectly cut, steel shafts with brass bearings. The case is oil tight and dust proof, permitting the gears to run in a bath of oil. Very easy motion, powerful and steady blast. The after blast is more lasting than any other blower furnishes. Royal size "H" with tuyere iron and pipe \$28.00



Buffalo Geared Hand Blowers—★

No. 99. Steel cut gears, running in oil. No complicated gearing. Height, 45 inches. Fan, 14 inches. Price, with tuyere iron..... \$32.00

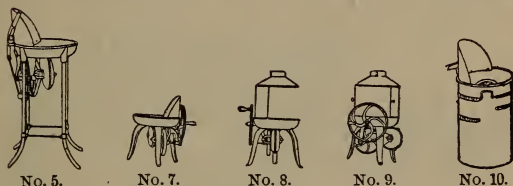
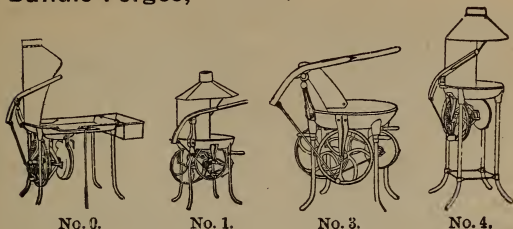


Champion No. 400 Blowers—*

No. 99. No. 400. No belts or friction. Ball bearings. Fan 12 inches. Weight 100 lbs. With tuyere iron and pipe...\$37.00

ALL PRICES SUBJECT TO DISCOUNT.

Buffalo Forges, for hand—★



	Fan.	Bed.	Weight, lbs.		
No. 0.	14 in.	28 x 40 in.	250	Half hood	\$50 00
" 0.	14 "	"	300	" with water tank...	54 00
" 1.	10 "	21 x 27 in.	140	"	40 00
" 2.	10 "	"	150	Closed	42 00
" 3.	10 "	"	140	No hood	36 00
" 4.	6 "	18 in.	75	Half hood.....	27 00
" 5.	6 "	"	70	No hood	24 00
" 6.	6 "	"	80	Closed	30 00
" 7.	6 "	15 in.	40	No hood.....	16 00
" 8.	6 "	"	50	Half hood	18 00
" 9.	6 "	"	55	Closed.....	20 00
" 10.	6 "	18 in.	110	Riveting, iron drum	32 00
" 11.	6 "	"	60	same as No.5, but has short legs, with box for carrying	26 00
" 12.	6 "	19 in.	125	Bellows forge with iron drum.....	32 00

Buffalo Heating Furnaces—★ Grate surface.

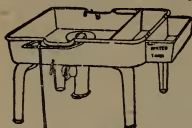


No. 30.	Without brick.....	8	x10 in.	\$35 00
" 31.	"	12	x12 in.	45 00
" 32.	"	13	x22 in.	60 00
" 33.	"	12	x20 in.	60 00
" 34.	"	12	x44 in.	75 00
" 35.	"	8	x22 in.	55 00
" 36.	"	18	x40 in.	90 00
" 37.	"	13	x40 in.	110 00
" 38.	"	24	x24 in.	75 00

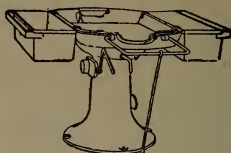
Can be furnished with opening on one or both sides and coal chute on one or both sides.

ALL PRICES SUBJECT TO DISCOUNT.

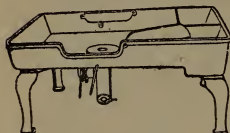
Buffalo Stationary Blast Forges—*



No. 00.



No. 02.



No. 03.



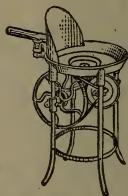
Nos. 0 and 1.

No. 00.	Bed, 38 x 51 in., 425 lbs.....	\$40 00
" 02.	" 26 x 36 in., 325 lbs.....	34 00
" 03.	" 48 x 61 in., 720 lbs.....	70 00
" 0.	" 28 x 40 in., 160 lbs.....	20 00
" 1.	" 21 x 27 in., 80 lbs.....	15 00

Agricultural Forges—*

A handy forge for farmers' use.
18 in. diameter bed. 4 in. deep. Height
30 in. Weight 65 lbs.

No. 150.	With Shield.....	\$8.50
No. 151.	With Half Hood.....	9.50



Leader Forges—*

No. 11. Bed 18-inch
diam., weight 60 lbs.
crank movement, no
hood..... \$14.00

No. 12. Bed 18 inch.
diam., weight 65 lbs.
crank movement,
half hood.... \$16.00



No. 11.

No. 12.

ALL PRICES SUBJECT TO DISCOUNT.

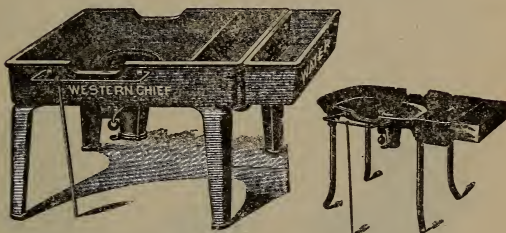
Western Chief Forges—★

See illustrations on page 160.

	Fan.	Bed.	Weight.	
No. 1.	14½ in.	33½x46 in.	300 lbs.	half hood....\$50.00
" 1.	14½ in.	33½x46 in.	350 lbs.	with watertank55.00
" 2.	12 in.	23 x35 in.	145 lbs.	no hood.....36.00
" 3.	12 in.	23 x35 in.	150 lbs.	half hood ....40.00
" 4.	9 in.	22 in. diam.	95 lbs.	no hood.....24.00
" 5.	9 in.	22 in. diam.	100 lbs.	half hood.....27.00
" 5½.	9 in.	22 in. diam.	100 lbs.	closed hood...30.00
" 6.	" "Hero"	18 in. diam.	70 lbs.	no hood.....20.00
" 7.	" "	18 in. diam.	75 lbs.	half hood.....23.00

Nos. 6 and 7 have shelf attached for tool rest.

Western Chief Stationary Forges—★



BB and XBB.

CC and AA.

Size.	Descriptions and Prices.	Height.	Weight.
CC	23 x35 in.	30 in.	100 lbs.
AA	33½x46 in.	30 in.	200 lbs.
BB	39 x52 in.	26 in.	350 lbs.
XBB	39 x63 in.	26 in.	400 lbs.
CC Plain, no hood			\$20.00
With half hood			24.00
AA Plain, one tank, no hood			25.00
With extra water tank			30.00
With one tank and half hood			30.00
With extra tank and half hood			35.00
BB Plain, no water tank and no hood			35.00
With extra water tank			40.00
With half hood, no water tank			40.00
With water tank and half hood			45.00
XBB Plain, no water tank and no hood			40.00
With extra water tank			45.00
With half hood, no water tank			45.00
With water tank and half hood			50.00

If desired we can furnish round canopy hoods for BB and XBB Forges at same price as half hoods.

ALL PRICES SUBJECT TO DISCOUNT.

WESTERN CHIEF FORCES.

See prices on page 159.



No. 1



No. 2



No. 3



No. 4



No. 5



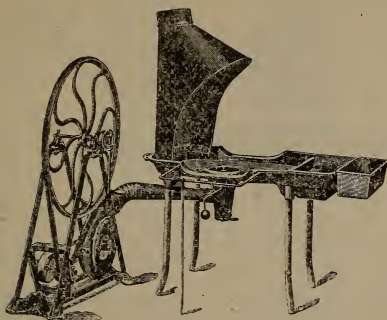
No. 6



No. 7

Western Chief Forges—★

No. 1 Forge and G Blower combined.



Size

AG.

Dimensions of forge, same as No. 1 Western Chief Forge.

Complete, as above	\$70.00
Without Hood.....	65.00
Without Extra Water Tank	65.00
Without Hood and Water Tank.....	60.00

Royal Western Chief Forges—★

Nos.

8 and 9



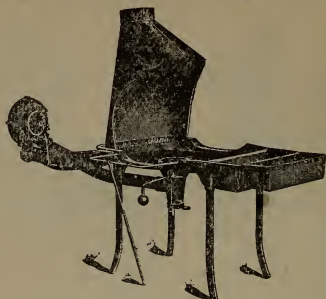
	Height.	Fan.	Over all.	Weight.
No. 8	26 in.	12 in.	39 x 52 in.	375 lbs.
No. 9	26 in.	12 in.	39 x 63 in.	425 lbs.

	No. 8.	No. 9.
Plain (no water tank and no hood)	\$65.00	\$70.00
With water tank (as illustrated)	70.00	75.00
With half-hood, no water tank	70.00	75.00
With watertank and half-hood	75.00	80.00

Round canopy hood if desired at same prices.

ALL PRICES SUBJECT TO DISCOUNT.

Royal Western Chief Forges, continued—★



No. 100.

Hearth $33\frac{1}{2}$ x 46 in. Fan 12 in. Height 30 in. Weight
275 lbs. Length over all 54 in.

With coal or water tank\$50.00

With extra water tank.....\$55.00

Always sent without extra water tank unless this tank is
ordered

No. 200.

With Improved

Smoke Conveyer



Hearth $33\frac{1}{2}$ x 46 in. Fan 12 in. Height 30 in. Weight
275 lbs. Length over all 54 in.

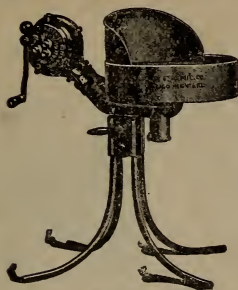
With coal or water tank.....\$55.00

With extra water tank 60.00

Always sent without extra water tank unless this tank is
ordered.

ALL PRICES SUBJECT TO DISCOUNT.

Royal Western Chief Forges—★

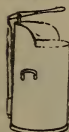


This type of forge is furnished also with half hood and full inclosed hood. Also with round cast iron column and base instead of pipe legs. Sheet steel hearths on all making them light and portable for rivet, bridge, mine and contractors' work.

Send for a catalogue of different styles.

No. 60.

No. 60. Hearth 18 in. Fan 10 in. Height 30 in.
Weight 70 lbs.....\$35.00



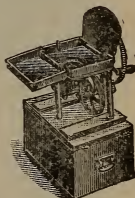
Bellows Forges—★

No. 40. Star. 19 in. hearth\$40.00
" 12. Buffalo. 19 in. " 32.00

Both of these forges are of nearly the same construction. The moving parts are protected by an iron drum, making it the safest forge for carrying about buildings, on bridges and scaffolding.

"S. D. K." Prospectors' Forges—

This Forge is suitable for prospectors' use, stockmen for heating branding irons, and for any light forging. The bed is 14 inches wide, 18 inches long including the steel coal pan, and 3 inches deep. The fan is 7 inch diameter. The forge is 12½ inches high. It is placed bodily in a strong box with dovetailed corners; the box is 19 inches long, 13½ inches wide and 14 inches high, and furnished with drop handles, hinges, hasp, and a hook to fasten the forge when in use. Weight 65 lbs. Blacksmiths, Machinists and Plumbers find it helpful for jobs away from the shop, and often in the shop when the regular forges are in use. Price, \$12.00



Watson Crank Forges—★

	With hood.	Without hood.
No. 1. 20 inch bed.	\$25.00	\$23.00
" 2. 24 "	30.00	28.00
" 4. 30 x 40 inch bed... ..	45.00	40.00



ALL PRICES SUBJECT TO DISCOUNT.

Challenge Forges—★



No. 1.



No. 2.



No. 3.



No. 4.



No. 5.

			Weight,	
	Fan.	Bed.	lbs.	
No. 1.	14½ in.	31x45 in.	290 without water tank.	\$50.00
" 1.	14½ "	31x45 "	340 with water tank....	55.00
" 2.	12½ "	23x35 "	130 with shield.....	36.00
" 3.	12½ "	23x35 "	135 with half hood.....	40.00
" 4.	9½ "	22 in. dia.	90 with shield.....	24.00
" 5.	9½ "	22 in. "	95 with half hood.....	27.00
" 5½.	Same as No. 5, but has a full closed hood...			29.50
ALL PRICES SUBJECT TO DISCOUNT.				

Standish Foot-Power Hammers—★



This is the heaviest and most substantial Foot Power Hammer made. The stroke is under perfect control. Suitable for any light forging. One pair of plain dies and one pair drawing dies with each hammer. Weight 550 pounds.

Price with two pair dies.....	\$75.00
Plain cast iron dies, 4x4x1¼ in....	
per pair.....	3.00
" forged steel dies 4x4x1¼ in.	
per pair.....	7.50

Illinois Foot Power Hammers—★

With 1 pair flat dies, 1 pair for ⅝ and ¾ in. oval, 2 pairs for ⅜ to ⅝ in. round iron\$60.00

Wgt. 400 lbs. Special dies furnished to order.

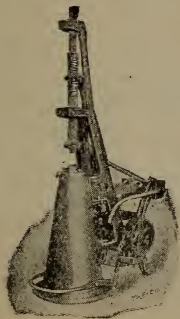


Gasoline Engines—

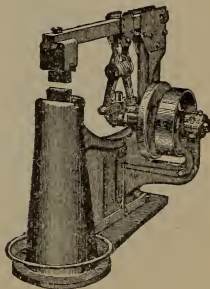
We will be pleased to furnish descriptions of Gasoline Engines upon application. We have arrangements with first-class manufacturers enabling us to make favorable terms and prices.

POWER HAMMERS.

See prices on page 166.



20th Century.



Easy.

ALL PRICES SUBJECT TO DISCOUNT.

POWER HAMMERS—Continued.

The 20th Century Power Hammers—

See illustration on page 165.

This is the latest power hammer produced. It is a powerful striker. Novel in construction, having a device for raising and lowering the head instantly to suit the work in hand while the hammer is in motion. One-horse power will run it. Will forge 2½ in. square and 3 in. round iron. Height 72 inches over all. Floor space 22x36 inches. Weight 1,100 pounds. Weight of head 50 pounds. It may be run as high as 350 strokes per minute. Price at factory.....\$176.00

Easy Power Hammers—

See illustration on page 165.

Easy to operate and repair. Suitable for plow-lay work and ordinary blacksmithing. Weight 990 pounds. Speed 325 strokes per minute. One-horse power will run it. Height 40 inches. Floor space 17x43 inches. Price at factory\$140.00

New Little Giant Power Hammers—See page 167.

Height 68 inches over all; floor space 20 x 30 inches; weight of head 50 pounds. Weight 1,620 pounds. One-horse power will run it. Full speed should be 300 to 325 revolutions per minute. Pulley 14x4 in. Will forge iron 2 in. square or 2½ in. round and flat iron to 4 in. wide without adjusting. 2½ in. square and 3 in. round can be forged by proper adjustments. The hole in the body permits the passage of long rods when forging. Price at factory.\$200.00

Boss Power Hammers—See page 167.

Height 77 inches over all; floor space 24x44 inches; weight 1,200 pounds. Weight of head and die 45 pounds. One-horse power will run it. Force of blow at full speed about 300 pounds. Pulley 10x4 in. speed, about 375 revolutions per minute. Will forge iron 2 in. thick. Work of all kinds will readily pass between the posts of the frame. Price at factory\$180.00

Hawkeye Power Hammers—See page 167.

No. 2. Height 48 inches. Floor space 28x44 inches. Weight 800 pounds. Full speed 250 to 300 revolutions per minute. Drive pulley 14x5 inches. Iron 2 in. round and plow steel can be forged with it. Price at factory.\$130.00

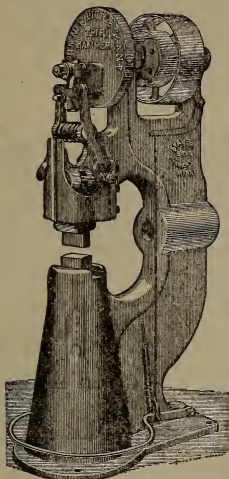
No. 3. Height 51 inches. Floor space 28x46 inches. Weight 1,100 pounds. Drive pulley 14x5 inches. This is a heavier hammer than No. 2 and will forge 3½ in. round iron and all kinds of plow shapes. The post and anvil block are cast in one solid piece with the bed.

Price at factory.....\$200.00

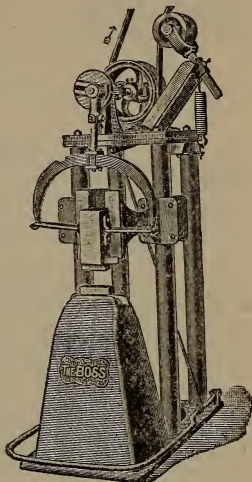
ALL PRICES SUBJECT TO DISCOUNT.

POWER HAMMERS—Continued.

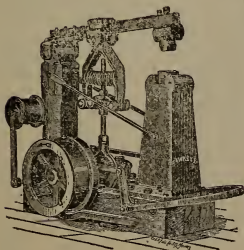
Prices on page 166.



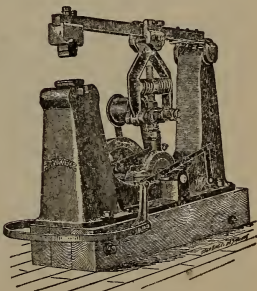
Little Giant.



Boss.



No. 2 Hawkeye.



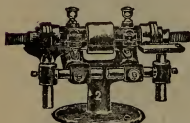
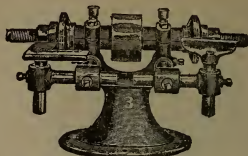
No. 3 Hawkeye.

*Emery Grinding Machines, For Bench.—

Provided with Improved Bearing Protector.



No. 1.



No. 1. Spindle, $\frac{3}{4}$ inch in bearings; $\frac{1}{2}$ inch between flanges. Will run two Emery Wheels 6×1 inch.
Length of bearings..... $1\frac{3}{8}$ inches
Diameter of flanges.....2 " face.
Size of Pulley on Spindle 1 inch diam..... $1\frac{3}{8}$ " face.
Distance between wheels..... $5\frac{1}{2}$ "
Height from base to center of spindle.....5 "
Diameter of base.....5 "

Weight, 15 lbs. Price.....\$5.00
No. 2. Spindle, 1 inch in bearings; $\frac{3}{4}$ inch between flanges. Will run two $10 \times 1\frac{1}{2}$ inch Emery Wheels.
Size of pulley upon spindle, $2\frac{1}{2}$ in. diam..... $2\frac{1}{2}$ in. face
Diameter of flanges..... $2\frac{1}{8}$ "
Distance between wheels.....7 "
Height from base to center of spindle.....6 "
Diameter of base 7 in. Weight 20 lbs. Price.....\$10.00

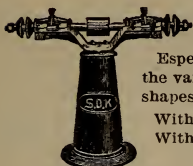
No. 3 Spindle, 1 3-16 inch in bearings; 1 inch between flanges.
Size of pulley upon spindle, $3\frac{1}{2}$ in. diam..... $2\frac{1}{2}$ in. face
Diameter of flanges.....4 "
Distance between wheels.....11 "
Size of base, 11×8 in. Height from base to center of spindle $7\frac{1}{4}$ in. Weight 40 lbs. Price.....\$15.00

No. 4. Spindle, 1 5-16 in. in bearings; $1\frac{1}{4}$ in. between flanges. Will run two 16×2 in. Emery Wheels.
Size of pulley upon spindle, $4\frac{1}{2}$ in. diam..... $2\frac{3}{4}$ in. face
Diameter of flanges..... $4\frac{1}{2}$ "
Distance between wheels..... $12\frac{1}{4}$ "
Size of base, $12\frac{1}{2} \times 8\frac{1}{2}$ in. Weight 60 lbs. Height from base to center of spindle, $9\frac{1}{2}$ in. Price....\$20.00

Countershafts—For above Machines.*

For Machine.	T.&L. Diam.	Pulleys Face.	Drive Diam.	Pulley Face.	Drop of Hanger.	Weight lbs.	Price.
No. 1.	3¼ in.	1¾ in.	8 in.	1¾ in.	5 in.	20	\$5.00
No. 2.	5 in.	2¼ in.	9½ in.	2¼ in.	6 in.	30	7.50
No. 3.	6 in.	2½ in.	12 in.	2½ in.	8 in.	50	10.00
No. 4.	6 in.	2½ in.	12 in.	2½ in.	8 in.	50	10.00

ALL PRICES SUBJECT TO DISCOUNT.

"S. D. K." Emery Grinding Machines—

Especially adapted to grinding the various plow and cultivator shapes.

Without Rests.....\$24.00
With Rests..... 30.00



Rests.

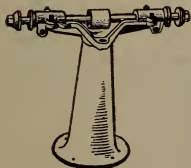
This machine, with our recent improvements, is made solely for us. Its form permits work of various shapes to be brought readily to the wheel, and, as now constructed, it is the best machine for general grinding in the market. Our large sales to all classes of establishments where emery grinding is required warrant our claims, namely: It is convenient, strong, perfectly true and not expensive. Takes wheels up to 3 inches thick. Brass oil cups. The lubrication is perfect.

DESCRIPTION.

Diameter of base.....18 in.	Length of bearings .....8 in.
Whole height.....33 in.	Diameter of pulleys....4¼ in.
Length of shaft.....44 in.	Face of pulleys.....4½ in.
Diameter of shaft.....1¾ in.	Weight.....205 lbs.
Diameter of shaft between the flanges, 1¼ in.	

Countershafts furnished at reasonable prices. Estimates made upon receipt of description of exactly what is wanted

See Emery Wheels, pages 71 and 72

**Monmouth Emery Grinding Machines—**

Height, 33 in. Mandrel, 42 in. long. 1½ in. diameter turned to 1¼ in. between flanges. Will take wheels up to 2½ in. thick. Pulley 4x4¼ in. face. Weight 200 lbs.
Price, at factory.....\$18.00
Swing Rest, extra..... 2.00
End Rests, extra, each..... 3.00

Tanite Emery Grinding Machines—

Send for Catalogue containing full description of the greatest line of these machines made by any concern. For saw gumming, planing and knife and stove grinding, railroad and general machine work. Too extensive to be catalogued in a book of this size.

ALL PRICES SUBJECT TO DISCOUNT.



S. D. K. Foot Power Emery Grinders—

This machine is made specially for us. Its large sale proves its value. Wherever grinding by emery wheels is desired with foot power it will be found superior to any other and develops higher speed.

Floor space, 15x17 in. Weight, 100 pounds. It will carry 10x1½ in. wheel.

Price, with one 6x½ Emery Wheel.....\$16.00
 " with Buffing Spindle..... 18.00

Schofield's Geared Bi-Treadle Grinders, Foot Power—★

With steel frame. With 8x¾ in. Emery

Wheel.....\$10.00
 Disc Grinding attachment..... 1.00
 Sickle Grinding attachments..... 1.00
 Tool Grinding Rest..... .50



Success Emery Grinders—★

Foot Power.

When set up is 4 feet high. Speed 3,000 revolutions.

Price, with emery wheel 6x¾ in. \$6.50

Union Emery Grinders, Foot Power—★

Height 42 in. ½ in. steel shaft. Weight 20 lbs. Speed 3,000 revolutions. Cone Bearings. For drills, knives, and other light work.

Price, with 6x¾ emery wheel.....\$4.50



Little Giant Harrow Disc Sharpeners—

This machine gives satisfaction because it can be run by hand or power; because the head and rest can be adjusted for any size disc, from 14 to 20 in., because the knife holder slides along outside the frame and can be set and located at any point; because the entire gang of discs can be put on at once; because there is a Coulter attachment; because it is not expensive.



Price.....\$23.00

Novelty Disc Sharpeners—★

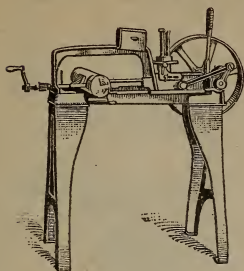
Takes any size disc from 12 to 20 inch., with any size hole from ¾ to 2 inch.

With Crank.....\$6.00

" Pulley for power..... 6.75



ALL PRICES SUBJECT TO DISCOUNT.



New Q. & C. Shop Saws—★

For hand and power.

For sawing off round or square metals. Has Automatic Variable Feed which can be instantly changed without stopping the machine. Is supplied with improved gravity feed for extremely hard metals of small size.

	No. 1.	No. 2.
Capacity.....	4 in.	5 in. solid
Floor Space.....	18x30 in.	19x34 in.
Height.....	26 in.	41 in.
Weight.....	130 lbs.	130 lbs.
Speed.....	50 rev.	50 rev.
Size pulley.....	14x2½ in.	14x2½ in.
Stroke of blade....	6 in.	6 in.
Length of blade.....	12 in.	14 in.
Price with 6 blades.....	\$17.50	\$22.50

Silver's Band Saws—★ See page 172.

	Power	Pulley	Table	Weight	Price
20 in. wheels,	belt	7x3 in.	20x24 in.,	300 lbs.,	\$50.00
20 in. " "	foot & belt,	7x3 " "	20x24 " "	403 " "	65.00
26 in. " "	belt,	10x3 " "	20x24 " "	650 " "	80.00
26 in. " "	foot & belt,	10x3 " "	20x24 " "	650 " "	90.00
32 in. " "	belt,	12x3½ " "	24x28 " "	950 " "	105.00
36 in. " "	belt,	12x4 " "	28x32 " "	1,175 " "	130.00

20 in. machines have wood tables, all others iron tables. Tables can be tilted. Height of all from floor to top of tables 40 in. Each machine is furnished with saw and brazing outfit.

All supplied with non-friction Roller Guides, except the 20 in. which can be so supplied, if so ordered.

Band Saw Blades—★

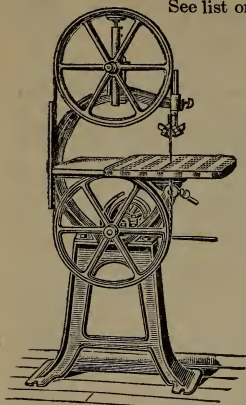
Joined, set and filed, ready for use. These sizes are recommended. Other sizes quoted on application.

For 20 in.	10 ft. 1 in. x ¼ or ⅜ in.	\$1.50 each.
" 26 in.	13 ft. 9 in. x ⅜ in.	2.00 "
" 32 in.	16 ft. 5 in. x ½ in.	2.65 "
" 36 in.	18 ft. 6 in. x ½ in.	2.85 "
" 36 in.	18 ft. 6 in. x ¾ in.	3.65 "

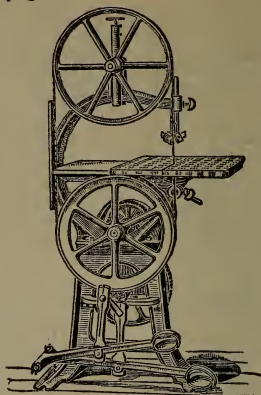
ALL PRICES SUBJECT TO DISCOUNT.

SILVER'S BAND SAWS.

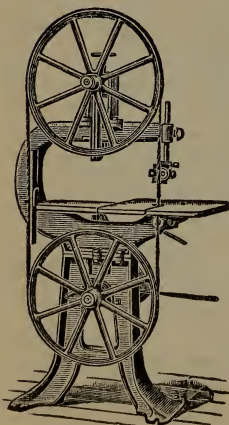
See list on page 171.



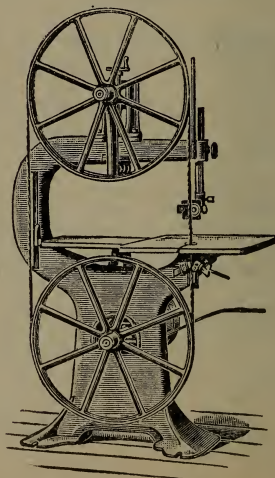
20 inch.



20 inch



26 inch.



32 and 36 inch.

**Barnes' Lathes—★**

No. 4, 7 in. swing, 20 in. centers. For turning wood and iron, and for boring, drilling, and polishing, etc. Weight 210 lbs., boxed, 265 lbs. \$40.00

No. 4½. For screw cutting 9 in. swing, 25 in. between centers. Weight 270 lbs., boxed 340 lbs. 65.00

No. 5. For screw cutting, 11 in. swing 34 in. between centers. Weight 335 lbs., boxed 500 lbs. 90.00

Barnes' Screw Cutting Engine Lathes—★

No.	Length of Bed.	Swing.	Center.	Weight.	Wt. Boxed.	Price.
5½	5 ft.	13 in.	33 in.	640 lbs.	775 lbs.	\$125.00
5½	6 ft.	13 in.	45 in.	690 lbs.	850 lbs.	135.00
5½	7 ft.	13 in.	57 in.	740 lbs.	890 lbs.	145.00
5½	8 ft.	13 in.	69 in.	790 lbs.	950 lbs.	155.00
5½	10 ft.	13 in.	93 in.	850 lbs.	1050 lbs.	175.00
13	5 ft.	13 in.	33 in.	640 lbs.	775 lbs.	152.00
13	6 ft.	13 in.	45 in.	690 lbs.	850 lbs.	162.00
13	7 ft.	13 in.	57 in.	740 lbs.	890 lbs.	172.00
13	8 ft.	13 in.	69 in.	790 lbs.	950 lbs.	182.00
13	10 ft.	13 in.	93 in.	850 lbs.	1050 lbs.	202.00

In ordering any of above lathes state whether wanted with foot power or countershaft. We will quote prices on countershafts.

Stearns' Bench Drills—★

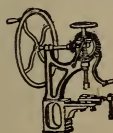
Drills to ½ in. Takes bit stock drills. \$10.00
Adjustable bed plate. Weight 29 lbs. Japanned standard, nicked hand wheel, red balance wheel.

**B. & P.'s Horizontal Drills—★**

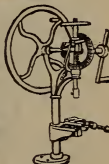
No.	Length, in.	Wgt., lbs.	Bore, in.	Price.
4	26	33	1½	\$6.00
4	26	33	1½	with friction feed... 6.75
2	33	45	1½	 10.00
2	33	55	1½	with balance wheel, 13.00
5	44	115	41-64	 20.00

Horizontal Drills—★

Ordinary pattern \$2.50 each.
Solid Standard 2.40 "

**Coe's Drills—★**

No.	Drills to	Price.
0	¾ in.	\$25.00
1	1 in.	40.00
2	1½ in.	50.00
3	1 in.	45.00
4	1 in.	37.50
5	¾ in.	30.00
6	1 in.	45.00
7	1½ in.	55.00
8	1 in.	40.00
18	1½ in.	100.00

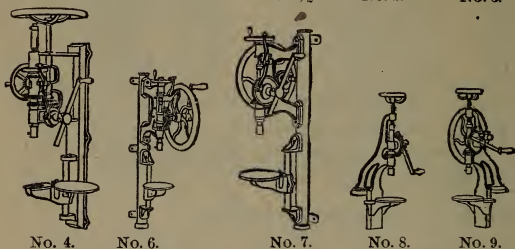
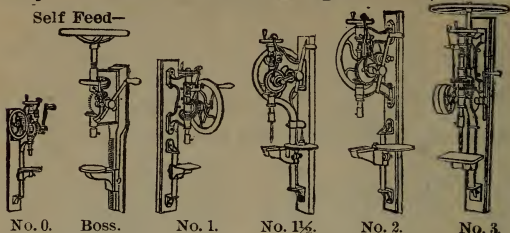


Nos. 0, 1 & 2. Chucks bored for 5/8 shank drills. Nos. 5 to 8.
Nos. 18 is a heavy power Drill with wheel and lever feed and countershaft included.

ALL PRICES SUBJECT TO DISCOUNT.

Boynton & Plummer's Upright Drills,*

Self Feed—



No.	Length, in.	Weight, lbs.	Bore, in.	Drills to, in.	Centers, in.	Price.
0	26	30	5-16	$\frac{3}{8}$	6	\$20 00
Boss	44	100	$\frac{1}{2}$	$\frac{3}{8}$	11	25 00
1	42	100	$\frac{1}{2}$	1	10	28 00
$1\frac{1}{2}$	44	120	$\frac{1}{2}$	1	10	34 00
2	54	160	$\frac{1}{2}$	$1\frac{1}{4}$	15	48 00
3	....	305	41-64	$1\frac{1}{2}$	21	75 00
4	54	250	41-64	$1\frac{1}{2}$	$17\frac{1}{2}$	70 00
6	42	125	$\frac{1}{2}$	1	11	30 00
7	54	200	$\frac{1}{2}$	$1\frac{1}{4}$	15	52 00
8	Bench	55	$\frac{1}{2}$	$\frac{3}{4}$	10	12 00
9	"	75	$\frac{1}{2}$	$\frac{3}{4}$	10	15 00

Add to list for drills with pulleys:

No. 1	$1\frac{1}{2}$	2	3	4	6	7
\$3 00	3 00	4 00	4 00	4 00	3 00	4 00

**B. & P.'s 22-in. Swing Power Drills. Lever Feed—***Spindle is counterbalanced. Cone pulleys for $2\frac{3}{4}$ in. belt. Weight, 500 lbs.

No. 14, with countershaft and lever feed...\$125 00

" " " " " screw " .. 180 00

" " " " " lever and

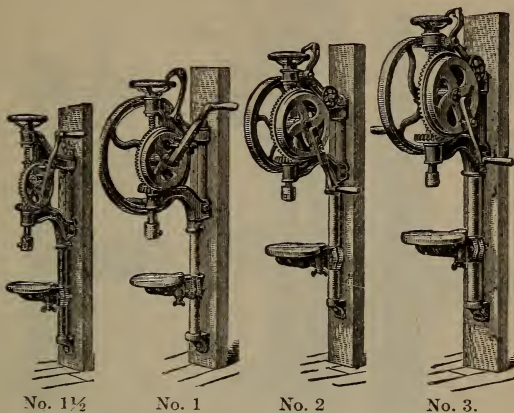
screw feed combined, weight 500 lbs... 135 00

Wheel-holding attachment, extra..... 5 00

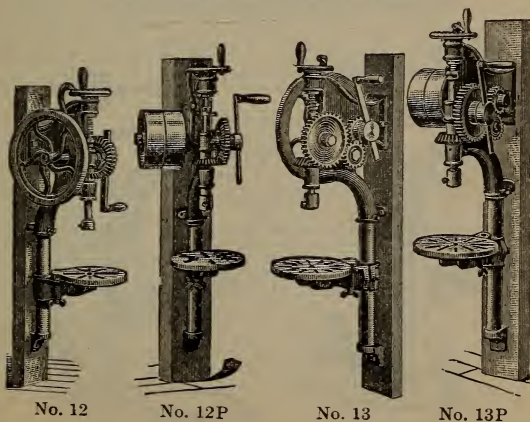
ALL PRICES SUBJECT TO DISCOUNT.

Silver's Upright Post Drills.

See prices on page 177.

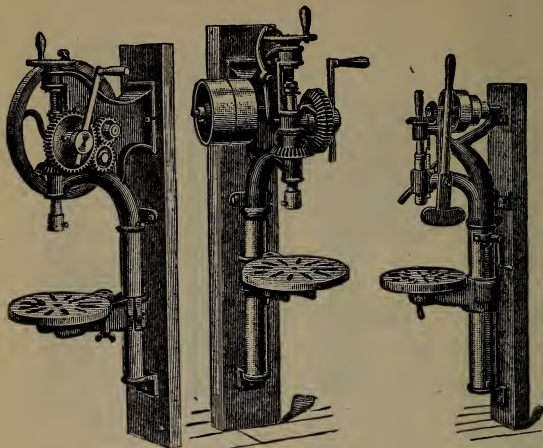


Silver's Advance Post Drills.



Silver's Advance Post Drills.

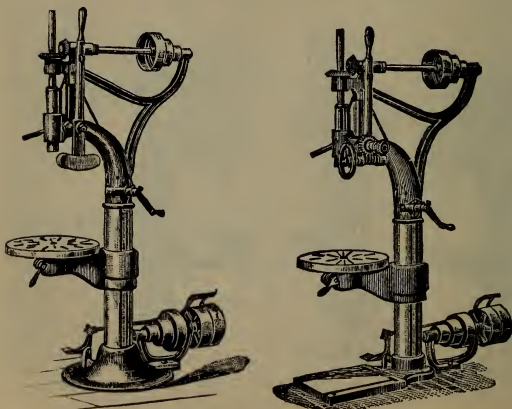
See prices on page 177.



No. 14

No. 14P

19 inch Swing.

Silver's Power Column Drills.

20 in. Swing, Round Base.

20 in. Swing, Square Base.

Silver's Upright Post Drills, Swinging Table—★

See illustrations on page 175.

No.	Weight. lbs.	Bore. in.	Drills to in.	Centers. in.		Price.
1½	55	½	¾	12	Hand Feed	\$6.00
1	80	½	¾	12	Self Feed.	8.00
2	100	½	1	14½	"	10.00
3	140	½	1¼	16	"	14.00

Chucks for Bit Brace Drills for any of these Machines, 1.00.

Silver's Advance Drills—★

See illustrations on pages 175 and 176.

No.	Weight.	Bore.	Drills to	Centers.	Price.
12	125 lbs.	½ in.	1 in. hole.	15 in.	\$10.00
13	175 "	½ "	1¼ "	18 "	16.00
14	240 "	½ "	1½ "	22 "	25.00

No. 12,	with pulleys and no balance wheel.....	\$13.00
" 12,	with pulleys and balance wheel.....	15.50
" 13,	with pulleys and no balance wheel.....	19.00
" 13,	with pulleys and balance wheel.....	22.00
" 14,	with pulleys and no balance wheel.....	28.00
" 14,	with pulleys and balance wheel.....	31.50

Chucks for Bit Brace Drills for any of these Machines, 1.00

Silver's Power Post Drills, Lever Feed—★

See illustration on page 176.

19 in. swing; height, 60 in.; diameter of column, 4½ in.; spindle, 1 3-16 in.; bored for No. 2 Morse taper.

With countershaft, complete..... \$60.00

Wheel-holding attachment, extra..... 2.00

Wheel-holding attachment to clamp around the column, extra..... 5.00

Silver's Power Column Drills—★

See illustrations on page 176.

20 in. swing; height, 63 in.; diameter of column, 5¼ in.; spindles, 1 3-16 in.; bored for No. 2 Morse taper. 450 lbs.

With T. & L. Pulleys round base; lever feed..... \$70.00

Same, with lever and screw feed..... 80.00

" " lever feed..... Square base, 525 lbs. 75.00

" " lever and screw feed " " 85.00

Prices include countershaft.

Wheel-holding attachment to clamp around the column, extra..... 5.00

Western Chief No. 1 Quick Return Drills—

Self Feed.



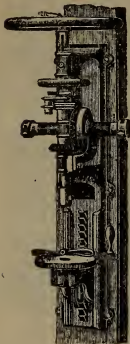
The "Quick Return" is easily adjusted and the feed is almost continuous. The drill bit revolves while rising, thus cleaning out the hole and strengthening the bit. The machine has three changes of feed, drills to center of 15 in., and up to 1¼ in. holes; bored for ½ in. shank bits and weighs 135 lbs. Has three ratchet circles on the under side of feed wheel. The table is constructed so that *any part* of work fastened to it can be brought under the bit. Can be sent with 41-64 in. bore if so ordered.

Price..... \$19.80

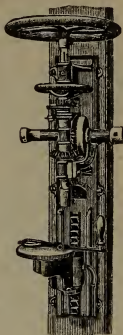
ALL PRICES SUBJECT TO DISCOUNT.

Little Giant Upright Drills—★

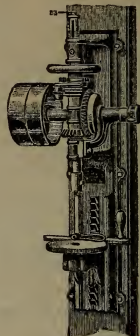
Post and Frame on all these machines, except No. D5, are one solid casting. Strongest medium sized drills made. Warranted true. Self-feed.



No 2



No 4



No 6

No. 2. Drills from $\frac{1}{8}$ to $1\frac{1}{4}$ -inch hole. To center of 14-inch circle, feed has a run of four inches. Table has an adjustment of 16 inches. Has three changes of feed. Has Straight Table.....\$18.00

No. 4. Has same general points as No. 2, but has Swinging Table.....\$20.00

No. 6. Has same general points as No. 2. Drills to $\frac{3}{4}$ inch. Has Straight Table.....\$21.00

No. 6. With Swinging Table.....\$23.00

No. 12. Has same general points as No. 2, except it is single geared. Drills to 1-inch hole. Has Straight Table.....\$15.00

No. 14. Same as No. 12, except it has Swinging Table.....\$16.00

No. 16. Same as No. 12, except it is for Power. It has Straight Table.....\$18.00

No. 18. Same as No. 16, except it has Swinging Table.....\$19.00

No. 5. Has half-round solid iron bed. Drills to 1-inch diameter holes, to center of 15-inch circle, feed has a run of four inches. Table an adjustment of 11 inches.....\$10.00

No. D5. Drills to 1-inch hole. To center of 14-inch circle. Feed has a run of four inches. Frame bolted to a wooden post.....\$8.50

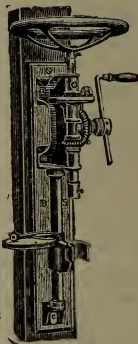
These Drills are always sent with $\frac{1}{2}$ -in. hole in spindle, unless 41-64 in. hole is specified in order.

We carry in stock Nos. 2, 4, 6 and D5. Weight of all these drills about 150 lbs.

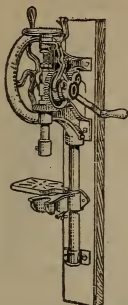
Wheel holding attachment, extra.....\$4.00

Vise for holding all shapes, extra.....8.00

ALL PRICES SUBJECT TO DISCOUNT.



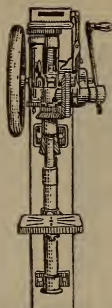
No. D5.

Champion Upright Drills—

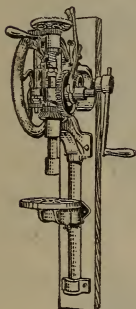
No. 90.



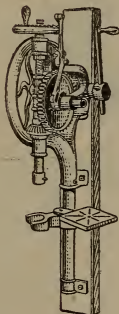
No. 93.



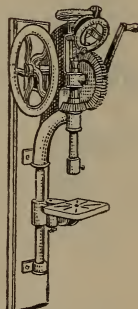
No. 94.



No. 96.



No. 4.



No. 4½.

Nos.	Length, inch.	Weight, lbs.	Bore, inch.	Centers, inch.	Drills to, inch.	Price.
90	45	100	½	14	¾	\$ 9.50
93	45	125	½	15	1	12.00
94	45	130	½	15	1	14.00
96	45	135	½	15	1	15.00
4	50	200	½	18	1¼	19.00
4½	50	210	½	18	1¼	21.00

Can all be furnished with 41-64 in. bore if so ordered.

Extra for pulleys on Nos. 90, 93, 4 and 4½.....\$3.00

Nos. 94 and 96 have a quick return attachment.

ALL PRICES SUBJECT TO DISCOUNT.

Western Chief Drilling Machines.

See list prices and descriptions on page 181.



No. 2



No. 3



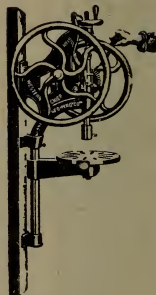
No. 12



No. 7



No. 14



No. 15



No. 8



No. 10

Western Chief Drills— See illustrations page 180.

	Weight	Bore	Drills to	Centers	Price	Price with pulleys
No. 2.	135 lbs.,	$\frac{1}{2}$ in.,	$1\frac{1}{2}$ in.,	15 in.,	\$19.20	\$22.20
" 3.	100 "	$\frac{1}{2}$ "	1 "	14 $\frac{1}{2}$ "	11.50	14.50
" 4.	200 "	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	18 "	22.00	25.00
" 7.	300 "	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	21 "	40.00	44.00
" 8.	3 0 "	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	23 "	40.00	.....
" 9.	350 "	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	23 "	.....	46.00
" 10.	400 "	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	23 "	.....	52.00
" 11.	4 0 "	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	23 "	.....	52.00
" 12.	200 "	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	16 "	33.00	37.00
" 14.	315 "	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	21 "	45.00	49.00
" 15.	175 "	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	19 "	22.00	25.00

Nos. 7, 12, 14 and 15 Drills, have ALL CUT GEARS (both bevel and straight).

Nos. 8, 9, 10 and 11 have the new combined Table Support and Vise, in which work of almost any shape can be held.

No. 9 has pulleys for power, otherwise the same as No. 8.

No. 10 has countershaft and pulleys, otherwise same as No. 9.

No. 11 has countershaft and pulleys and front lever feed instead of crank feed.

No. 14 has an effective quick return attachment, also a crank and screw device for raising and lowering the table.

No. 15 is back-geared, changeable speed, two balance wheels. For hand and power.

All these Drills can be furnished with 41-64 in. bore when so ordered.

Coe's Tire Benders—*

No. 1.

No. 1.	4x $\frac{1}{2}$ in. tire, weight
80 lbs.	\$12.00
No. 4.	4x $\frac{3}{4}$ in. tire, weight
135 lbs.	 20.00

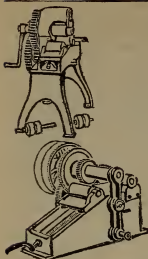


No. 4.

Perfected Tire Benders—*

No. 21.	4x $\frac{1}{2}$ in. tire, not geared, weight
100 lbs.	\$12.00
No. 22.	4x $\frac{7}{8}$ in. tire, geared, weight 150
lbs.	 19.00
No. 23.	4x1 in. or 6x $\frac{3}{4}$ in. tire, geared,
weight 230 lbs.	 26.00
No. 24.	Same as No. 23 with countershaft and pulleys,
weight 265 lbs.	 35.00
No. 25.	6 x 1 in. tire, double geared, extra heavy bed,
weight 400 lbs.	 55.00
No. 26.	Same as No. 25, with countershaft and pulleys,
weight 450 lbs.	 65.00

ALL PRICES SUBJECT TO DISCOUNT.

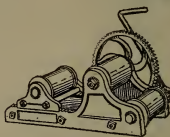


Boynton & Plummer's Tire Benders—★

With open side.

No. 1	5x $\frac{3}{4}$ in. tire, weight 500 lbs., geared 9 to 1.....	45.00
	With grooved rolls.....	60.00
	With 16x3 $\frac{1}{2}$ T. & L. pulleys.....	extra 15.00
No. 2.	Same as No. 1 but smaller, 3x $\frac{3}{4}$ in. tire, weight 250 lbs.....	24.00
	With grooved rolls.....	36.00
	With 14x3 T. & L. pulleys.....	extra 12.00
No. 3.	For the heaviest work, taking in $\frac{1}{4}$ to 1 $\frac{1}{4}$ x10 in., weight 1,000 lbs., geared 18 to 1, for hand.....	100.00
	With 18x4 T. & L. pulleys.....	120.00

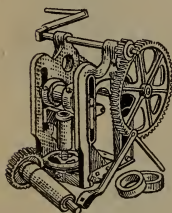
Tire Benders—★



No. 2. Geared.	No. 3. Geared.	Ideal.
No. 1, Plain, 3x $\frac{3}{4}$ in. tire, like No. 2, without gears.....		\$ 6.00
" 2, Geared, 3x $\frac{1}{2}$ in. tire.....		7.00
" 2 $\frac{1}{2}$, " 4x $\frac{1}{2}$ in. tire, like No. 2.....		7.75
" 2 $\frac{1}{2}$, " 6x5-16 in. tire, like No. 2.....		8.50
" 3, " 5x $\frac{3}{4}$ in. tire.....		10.50
Ideal, No. 2, 6x5-16 in. tire, geared, ball bearing.....		10.00
" No. 3, 6x $\frac{1}{2}$ in. tire, like No. 2 but heavier, ball-bearings. Center roll easily removed.....		15.00

Giant Tire Benders,

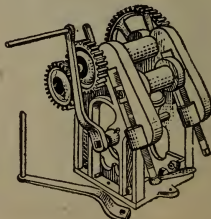
Old style—★



Giant.

No. 1, 4x1 in. tire, weight 330 lbs., old style.....	\$40.00
No. 2, 3x1 in. tire, weight 236 lbs., old style.....	30.00
No. 3, 3x $\frac{3}{4}$ in. tire, weight 175 lbs., old style.....	24.00
No. 0, Extra heavy, 6x1 in. tire, weight 400 lbs., old style.....	45.00

We will quote special prices for pulleys for power on all of above Benders.

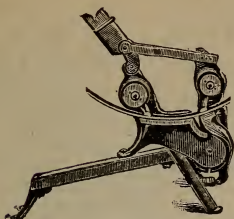


Peerless.

New Peerless Tire Benders—★

No. 1, 4x1 in. tire, weight 340 lbs.....	\$40.00
No. 2, 3x1 " " " 250 " ".....	30.00
No. 3, 3x $\frac{3}{4}$ " " " 185 " ".....	24.00
No. 0, extra heavy, 6x1 in. tire, weight 400 lbs.....	45.00

ALL PRICES SUBJECT TO DISCOUNT.



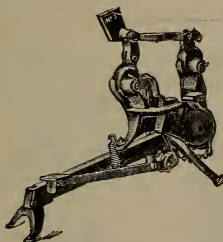
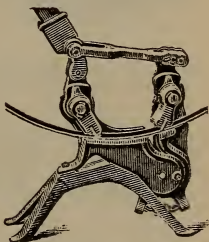
Mole's Tire Upsetters—

No.	lbs.
1, 2½ in. wide tire,	150. \$7.80
2, 3 in. " "	225 11.10
3, 4 in. " "	300 14.10

Improved Mole's 1900 Tire Upsetters—

No. 5. 4 in. wide tire, 225 lbs.
Has hardened steel plates in dogs,
easy to replace.

Price.....\$13.00



Anti-Kinker Mole's Upsetters—

With treadle.

No. 2, 3 in. wide tire, weight
215 lbs.....\$11.70

No. 3, 4 in. wide tire, weight
285 lbs.\$14.90

New Ideal Mole's Tire Upsetters—

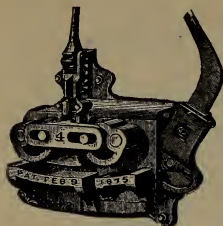
Has an adjustable shoe operated by the
lever, which holds down the tire and pre-
vents kinking.

No. 2, 3 in. bed.....\$13.00
" 4, 4 in. bed, 350 lbs..... 19.50



ALL PRICES SUBJECT TO DISCOUNT.

Stoddard Tire Upsetters—



No. 1, 2x $\frac{3}{4}$ in. tire, weight 100 lbs.	\$7.50
No. 2, 4x1 in. tire, weight 225 lbs.	\$12.50
No. 3, 4x1 in. tire and 1 $\frac{1}{2}$ in. axle, weight 250 lbs.	\$19.00
No. 4, 6x1 in. tire, weight 400 lbs.	\$27.50
No. 5, 6x1 in. tire and 2 in. axle, weight 450 lbs.	\$34.00

Ayres' Tire Upsetters—*



Ayres', No. 2, 3x $\frac{3}{4}$ in. tire, 220 lbs.	\$20.00
Ayres', No. 3, 4x1 in. tire, 290 lbs. strongest made.	25.00

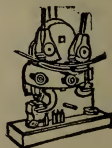
Coe's Tire Upsetters—*



Coe's, No. 1, 2x $\frac{3}{4}$ in. tire, 85 lbs.	12.00
Coe's, No. 2, 4x1 in. tire., 150 lbs.	20.00

Tire Upsetter, Punch and Shear Combined—

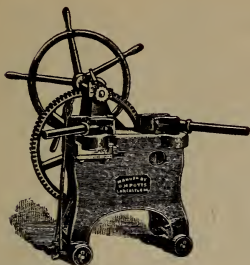
Black Giant, improved 1894, upsets 4 in. wide tire, cuts $\frac{3}{4}$ in. round or square and 3x $\frac{1}{2}$ in. iron, punches $\frac{3}{8}$ in. thick iron, weight 400 lbs. Price, including stand, 4 punches and dies, steel lever, at factory. \$70.00
Without the upsetting part, price at factory. \$60.00
Ripping shears, saw gummer and dies for cutting $\frac{7}{8}$ or 1 in. round, extra.



Henderson's Hand Power Cold Tire Setter—

Send for description and prices.

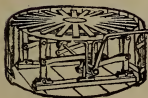
ALL PRICES SUBJECT TO DISCOUNT.



Sun Tire and Axle. Upsetter and Welder—

Made for light and heavy wagon work. A ratchet is attached to hold the machine solid in position when welding. Will stand the pounding necessary for welding tires and axles. Weight 1000 lbs. Will upset and weld tires up to $6 \times 1\frac{1}{4}$ in. and axles from $\frac{3}{4}$ to 3 inch. Upsets if required 2 in. at one revolution of hand wheel.

Price at factory.. \$105.00



Bokop's Tire Setters and Coolers—

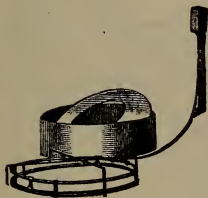
No. 1, with tub, light, at factory, \$72.00

No. 2, with tub, heavy, at factory, 78.00

Without tub, \$7.00 less.

Bokop's Tire Heaters—

Price at factory\$34.00



Harvey Patent Tire Heaters—★

Generates Gas from Kerosene Oil. Heats tire up to 4 ft. 6 in. high, weight 140 lbs.

Old Style.....\$28.00

New Style, with Air Pump 31.00

Bashaw's Tire Removers—

Made of malleable iron with steel screw and bar and block. Tire can be removed without injuring the felloe. Will push off any tire from $\frac{1}{4}$ to $\frac{3}{4}$ in. thick.....\$7.50



ALL PRICES SUBJECT TO DISCOUNT.



Badger Punches and Shears, Hand Power—★

No. 15. A very heavy machine, cuts $4 \times \frac{1}{2}$, $8 \times \frac{1}{4}$ and 1 in. round iron. Punches $\frac{5}{8}$ hole in $\frac{5}{8}$ iron. Three punches and dies and a lever included. Weight 550 lbs. \$77.00

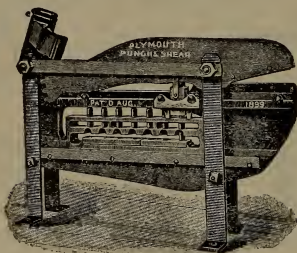
Cleveland Punches and Shears, Hand Power—★

Made of Wrought Steel.

- No. 193. Cuts $4 \times \frac{3}{4}$ and $1 \frac{1}{4}$ sq., and punches $\frac{1}{2}$ in. hole in $\frac{1}{2}$ in. iron, weight 450 lbs. \$45.00
- No. 195. Cuts $4 \times \frac{3}{4}$ and $1 \frac{1}{4}$ square, weight 255 lbs. 30.00
- No. 197. Cuts $4 \times \frac{3}{4}$ and $1 \frac{1}{4}$ square, and plow steel up to 10 in. wide, weight 255 lbs. 35.00



Plymouth Punches and Shears, for Hand Power—

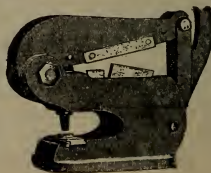


Cuts $4 \times \frac{1}{2}$ in., $3 \times \frac{5}{8}$ in. and 1 in. round iron, punches $\frac{1}{2}$ in. hole in $\frac{1}{2}$ in. iron. Seven punches and dies, $\frac{1}{4}$ to $\frac{3}{8}$ in. are held in a rack which slides forward bringing the size wanted quickly to the plunger. No wrench required. Weight

500 lbs. Price at factory. \$96.00

Giant Punches and Shears, Hand Power—★

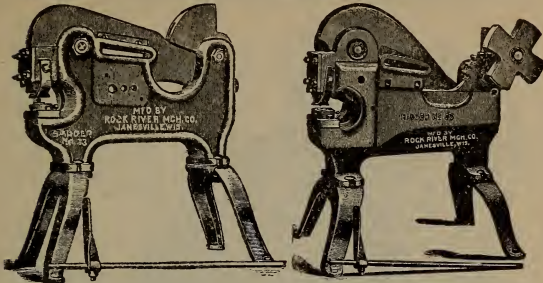
- No. 1. Cuts $8 \times \frac{5}{8}$ in. and 1 in. round and punches $\frac{5}{8}$ in $\frac{1}{2}$ inch iron. Weight 500 lbs. \$50.00
- No. 2. Cuts $6 \times \frac{1}{2}$ in. and $\frac{3}{8}$ in. round and punches $\frac{1}{2}$ in $\frac{1}{2}$ inch iron. Weight 375 lbs. 37.50
- No. 3. Cuts $6 \times \frac{3}{8}$ in., punches $\frac{1}{2}$ in $\frac{3}{8}$ inch iron. Weight 250 lbs. 25.00



Punches and dies included, 5-16, $\frac{3}{8}$, 7-16, $\frac{1}{2}$ and $\frac{5}{8}$ in.

ALL PRICES SUBJECT TO DISCOUNT.

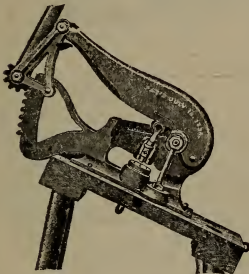
Badger Punches and Shears, for Hand Power--*



- | | |
|--|--|
| <p>No. 33. Cuts $2\frac{1}{2} \times \frac{1}{2}$ in., $3 \times \frac{3}{8}$ in. and $\frac{3}{8}$ in. round iron, punches $\frac{3}{8}$ in $\frac{3}{8}$ inch iron. Weight 260 lbs. Three punches and dies included.....</p> <p>No. 66. Cuts $4 \times \frac{1}{2}$ in., $3 \times \frac{5}{8}$ in. and 1 in. round iron, punches $\frac{1}{2}$ in $\frac{1}{2}$ inch iron. Weight 490 lbs.....</p> | <p>No. 66.</p> <p>\$35.00</p> <p>60.00</p> |
|--|--|

Sears' Punches and Shears, Hand Power--*

All with revolving die.



- | | |
|---|---|
| <p>No. 1, cuts $3 \times \frac{1}{2}$, $5 \times \frac{3}{8}$ inch, and $\frac{3}{4}$ inch round iron, and plow steel. Punches $\frac{1}{2}$ in 5-16 inch, $\frac{3}{8}$ in $\frac{3}{8}$ inch, weight 250 lbs. Price, including 3-16, $\frac{1}{4}$, 5-16, $\frac{3}{8}$, 7-16, and $\frac{1}{2}$ inch punches and dies.....</p> <p>No. 2, shear only, cuts $3 \times \frac{1}{2}$, $5 \times \frac{3}{8}$, $4 \times 7-16$ in. iron, also cuts plow steel. Weight 225 lbs.....</p> <p>No. 3, like No. 1, having same description, but has an attachment for welding on plow lays. Weight 300 lbs. Price</p> <p>Nos. 1, 2 and 3 are furnished with legs.</p> <p>No. 4, like No.1, but heavier. Cuts $3 \times \frac{3}{4}$, $5 \times \frac{1}{2}$ in. and $\frac{3}{4}$ in. round iron, also cuts plow points. Punches $\frac{1}{2}$ in $\frac{1}{2}$ inch iron, also plow lays. Weight 400 lbs. Price, including 3-16, $\frac{1}{4}$, 5-16, $\frac{3}{8}$, 7-16 and $\frac{1}{2}$ in. punches and dies.....</p> <p>Legs, extra</p> <p>No. 5, like No. 4, having the same description, but has in addition an attachment for welding on plow lays. Price.</p> <p>Legs, extra</p> | <p>\$25.00</p> <p>\$20.00</p> <p>\$35.00</p> <p>75</p> <p>40.00</p> <p>75</p> |
|---|---|

ALL PRICES SUBJECT TO DISCOUNT.

The "Marvel" Punch and Shears,
Hand Power—



A high grade machine, made of malleable iron.

	Each.
Price, including two levers and one each 1-4, 5-16 and 3-8 in. punches and dies.....	\$80.00
Extra punches, 3-16, 1-4, 5-16, 3-8 or 1-2 in. each	.80
Extra dies, 3-16, 1-4, 5-16, 3-8 or 1-2 in. each.....	1.20

CAPACITY.

Cuts from the lightest up to $\frac{1}{2}$ in. thick flat iron or soft steel.

Cuts $\frac{1}{4}$ to $\frac{3}{4}$ in. round iron or soft steel. Has a cutting blade for each size which makes a clean square cut.

Cuts angle steel up to 3 in., by two cuts.

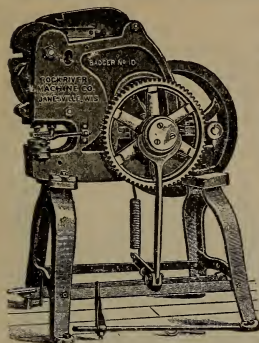
Punches angle steel from 1 to 3 in.

Punches $\frac{3}{8}$ in. hole in $\frac{3}{8}$ in. and $\frac{1}{2}$ in. hole in $\frac{1}{4}$ in. iron or soft steel.

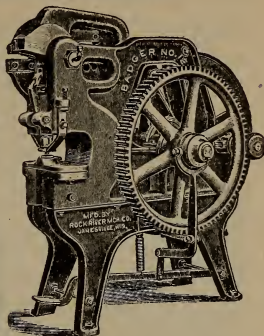
This machine is easily operated by one man, is simple and compact, takes one square foot of floor space. Is 14 in. in diameter and 8 in. in width. The operator stands directly over the work. All parts are interchangeable. The sides are held together by a $1\frac{1}{4}$ -in. steel bolt, and are tongued and grooved inside forming a reliable bearing which relieves the bolt from undue strain and holds the cutting blades to their work. A gauge is furnished for both the round and flat shears. The levers operate a double eccentric, the short lever doubling the power. Weight 135 lbs.

ALL PRICES SUBJECT TO DISCOUNT.

Badger Power Punches and Shears—★

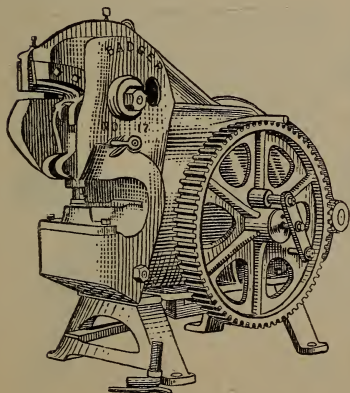


No. 10½.



No. 12

- No. 10½. Cuts 5x¼ in., 2x½ in., and ⅞ round.
Punches ⅝ in ⅝ in. iron. One punch and die included. Weight 1100 lbs.....\$190.00
- No. 12. Cuts 4x½ in., and 1½ round iron. Punches ⅝ in ½ in. iron. One punch and die included.
Weight 2,000 lbs.....\$400.00



No. 17.

No. 17. A very convenient and powerful machine. Cuts 4½x¾ in. and 1½ in. round soft steel; punches 1 in. hole in ¾ in. soft steel. Throat 10 in. deep. Knives can be substituted for the punch and die for special work.

Weight 4,000 lbs.
Floor space 72½x48½ inches.
Price.....\$577.00

ALL PRICES SUBJECT TO DISCOUNT.

Rice's Punches, for Hand Power—★



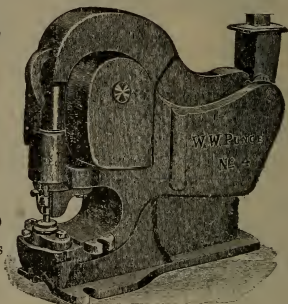
No.	Capacity.	Centers.	Price.
0	$\frac{1}{4}$ in $\frac{1}{4}$	$4\frac{1}{2}$ in.	\$10.00
1	3-16 in 3-16. 5-16 in No. 14, W. G.	4 "	15.00
$1\frac{1}{2}$	$\frac{3}{8}$ in $\frac{1}{4}$. $\frac{5}{8}$ in 3-16. $\frac{3}{4}$ in $\frac{3}{8}$	8 "	25.00
2	3-16 in 3-16. 5-16 in $\frac{3}{8}$. $\frac{1}{2}$ in No. 14, W. G.	27 "	35.00
$2\frac{1}{2}$	$\frac{3}{8}$ in 3-16 5-16 in $\frac{1}{4}$. $\frac{1}{2}$ in $\frac{3}{8}$	21 "	40.00
$3\frac{1}{2}$	$\frac{1}{2}$ in $\frac{3}{8}$. $\frac{5}{8}$ in $\frac{1}{4}$	9 "	50.00

Lever with each machine. With Nos. 0, 1 and 2, $\frac{1}{4}$, 3-16 and $\frac{1}{4}$ punches and dies; No. $1\frac{1}{2}$, $\frac{1}{4}$, 5-16 and $\frac{3}{8}$ punches and dies; No. $2\frac{1}{2}$, 3-16, $\frac{1}{4}$ and 5-16 punches and dies; No. $3\frac{1}{2}$, $\frac{5}{8}$, 7-16 and $\frac{1}{2}$ punches and dies.

W. & W. Punches, Hand Power—

No. 4 Punches $\frac{1}{2}$ in. hole in $\frac{3}{8}$ in. iron, $\frac{3}{4}$ in $\frac{1}{4}$ in. iron. Throat $4\frac{1}{2}$ in. from center of punch. Weight 400 lbs. Price, including $\frac{1}{4}$, $\frac{3}{8}$ and $\frac{1}{2}$ inch die and punch and 7 foot lever.....\$38.00

Extra Punches and Dies \$1.00 each.



Badger Punches, Hand Power—★

No. 8 Punches $\frac{1}{4}$ in $\frac{1}{4}$ in. iron. For light angles or where hole is wanted close to a corner it is well suited. Two punches and dies and a lever included. Weight 60 lbs.....\$20.00

No. 1. Handy Punch. Punches $\frac{1}{4}$ in $\frac{1}{4}$ in. iron. Wgt. 70 lbs.....\$12.50



Three punches and dies and lever included. Extra punches and dies \$1.00 each.



No. 1 Handy.

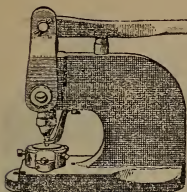
Ideal Punches, Hand—★

With one punch and die....\$5.00

Extra punches and dies.... 2.00 per set.



ALL PRICES SUBJECT TO DISCOUNT.



I. X. L. Punches, Hand Power--

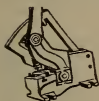
Will punch $\frac{1}{4}$ in $\frac{1}{4}$ in. iron
or soft steel.....\$17.00
Extra punches, 50 cts. Extra dies,
60 cts. each.

Star Punches, Hand Power—

Punches 5-16 in $\frac{1}{4}$ in. iron or soft
steel. Lever works both ways.
One $\frac{1}{4}$ in. punch and die included.
Weight 90 lbs.....\$15.50



Star.



Dandy.

Dandy Punches,

Hand Power—

A very handy machine
for wagon shop for punch-
ing sway-bar and stake
irons.....\$12.00



Dandy Shears—

Cuts $2 \times \frac{1}{4}$ inch iron.....\$12.00

Badger Angle Shears—★

No. A3. Cuts angle steel up
to $1\frac{1}{2} \times 3-16$ in, weight
150 lbs.....\$30.00
No. A3 $\frac{1}{2}$. Cuts same as A3.
Has hole for cutting small
rounds 40.00



Badger

Shears—★

No. A1. Cuts $3 \times \frac{3}{8}$ in. iron,
weight 75 lbs.....\$10.00
No. A2. Cuts $2\frac{1}{2} \times \frac{1}{2}$ in. or
 $4 \times \frac{3}{8}$ in. iron, weight 150
lbs..... 15.00
No. A1 $\frac{1}{2}$. Cuts same as A1.
Also $\frac{3}{4}$ in. round iron... 15.00
No. A2 $\frac{1}{2}$. Cuts same as A2.
Also $\frac{1}{8}$ in. round iron.... 23.00

ALL PRICES SUBJECT TO DISCOUNT.

Acme Splitting Shears—

Will cut $\frac{1}{4}$ in. iron or steel sheets any width or length, weight 170 lbs. Lever is four feet long and works both ways.

Price\$16.50



Handy Splitting Shears—★



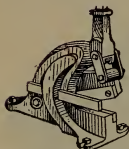
No. 1. For tinner and all workers of light metals. Cuts $\frac{1}{8}$ in. and less, any width or length. Weight 60 pounds\$15.00

Doty's Splitting Shears—★

No. 4 A, Cuts 5-16 in. shts., wt. 520 lbs.\$75.00

No. 4 B, Cuts $\frac{1}{2}$ in. sheets, wt.1135 lbs.150.00

Cuts any width or length.



Simplex Shears—★

Cuts $2\frac{1}{2}$ in. and $\frac{3}{4}$ in. round or square iron. Will trim one side of a cultivator shovel with one stroke of the lever. Lever works to the front.

Price, without lever\$10.00
" with lever 11.00

Winner Shears—

Cuts $3\frac{3}{4}$ in. iron or soft steel, and $1\frac{1}{2}$ in. round iron. Blades 7 in. long, weight 355 lbs. On work $\frac{1}{2}$ in. and under, the back gear need not be used. No lever unless ordered; lever should be about 6 ft. long. Price.....\$22.00
Lever extra..... 1.50



Clipper Shears—

Cuts $4\frac{1}{2}$ inch. and $\frac{1}{8}$ inch round iron or soft steel. Weight 210 lbs. No lever unless ordered.

Price.....\$13.50
Lever extra 1.50



ALL PRICES SUBJECT TO DISCOUNT.

Pages 194 to 243.

DEPARTMENT

Wagon and Carriage
Hardware

SKEINS,

AXLES,

SPRINGS,

BOX STRAPS,

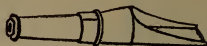
BOLSTER PLATES,

CLIPS,

COUPLINGS,

KING BOLTS,

GEAR IRONS, ETC.

Thimble Skeins—*

	Cast Iron.		Columbus and Sandage Steel.	
	Per set.	Wt. per set, lbs	Per set.	Wt. per set, lbs.
2 x6	\$3.25	26	....	..
2 x6½	3.25	28	....	..
2¼ x 7,	3.75	30	\$ 5.60	32
2¼ x 7½,	4.00	32	5.70	35
2¾ x 7,	4.00	32	....	..
2¾ x 7½,	4.00	34	....	..
2½ x 7½,	4.50	36	5.70	40
2½ x 8,	4.75	38	5.80	43
2¾ x 8,	5.25	46	6.10	50
2¾ x 8½,	5.40	49	6.20	53
2¾ x 9,	6.00	50	6.30	58
3 x 8½,	6.00	54	6.40	62
3 x 9,	6.00	58	6.50	66
3 x 10,	6.50	65	6.70	72
3¼ x 9,	7.00	68	7.40	73
3¼ x10,	7.50	70	7.50	78
3¼ x11,	7.75	71	7.60	80
3½ x10,	8.00	73	8.30	85
3½ x10½,	8.00	78	8.40	90
3½ x11,	8.30	84	8.50	96
3½ x12,	8.80	88	9.00	112
3¾ x11,	9.00	92	10.00	118
3¾ x12,	9.40	98	10.00	115
4 x12,	10.60	110	12.00	116
4¼ x12,	15.00	150	13.00	143
4½ x12,	18.00	160	17.00	152
4½ x13,	20.00	175	18.00	171
5 x13,	23.00	240	.....	...
5 x14,	25.00	260	23.00	...
*5½ x14,	30.00	...	25.00	...
*6 x15,	....	...	27.00	...
*6¼ x18,	....	...	30.00	...

* Steel Skeins of these sizes made only with *Linch Pins*.

Cast Skein Boxes alone 1-3 price of Thimble Skeins.

Cast Skeins, without boxes, 2-3 price of Thimble Skeins.

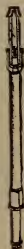
Skein Nuts..... .c. each. .c. per set.

Brown's Oil Chamber, Truss and Clip-bar Skeins, list same as above.

ALL PRICES SUBJECT TO DISCOUNT.



National Tubular Axles—Wrought steel. ★



Made of one piece of steel tubing from end to end, including splindles.

STANDARD FARM AXLES.

FOR FARM AND PLANTATION WAGONS ONLY

TRADE NO. STANDARD FARM AXLES.	PRICE PER SET.		SIZE OF SPINDLES.		CARRYING CAPACITY. POUNDS.	REL SIZES STEEL THIMBLE SKS. INCHES.
	PLAIN SPINDLES.	SELF-OILING SPINDLES.	DIAMETER. INCHES.	LENGTH OF BOX. INS		
1		\$10 00	2 1/8	8 x 8 1/2	2500	2 3/4 x 8
2		12 00	2 3/8	9	3500	3 x 9
3		14 00	2 5/8	10	4500	3 1/4 x 10
4		16 00	2 7/8	11	6000	3 1/2 x 11
4 1/2		20 00	3 1/8	12	7000	3 3/4 x 12
5		22 00	3 1/4	12	8000	4 x 12
8	10 Cents per set less than Self-Oiling.	8 00	1 7/8	7 1/2 x 8	1500	

SPECIAL FARM AXLES—XSTRONG.

FOR WAGONS FOR USE ON CITY PAVEMENTS.

TRADE NO. SPECIAL FARM AXLES.	POLISHED SELF-OILING SPINDLES.	ADD'L FOR EXTRA LENGTHS OF BED PER INCH.	SIZE OF SPINDLES.		CARRYING CAPACITY. POUNDS.	REL. SIZES. STEEL THIMBLE SKS. INCHES.
			DIAMETER. INCHES.	LENGTH OF BOX. INS.		
a 1	\$13 00	24c	2 1/8	8 x 8 1/2	3500	2 3/4 x 8
a 2	15 00	28c	2 3/8	9	4500	3 x 9
a 3	18 00	33c	2 5/8	10	6000	3 1/4 x 10
a 4	21 00	39c	2 7/8	11	8000	3 1/2 x 11
a 4 1/2	24 00	45c	3 1/8	12	9000	3 3/4 x 12
a 5	28 00	52c	3 1/4	12	10000	4 x 12

Above prices are for Standard Tracks—An extra charge made for wider Tracks than 6 ft. 2 in.
See width of Track, page 196.

ALL PRICES SUBJECT TO DISCOUNT.

Standard Widths of Track—From center to center of tire on the ground. For National Tubular Axles.

Narrow track	4 ft. 6 in.
Wide track	5 " 0 "
California track	5 " 2 "

Axles of any desired width of track over 5 ft. 2 in. made to order at extra prices.

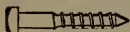
When ordering be careful to give width of track wanted. Longer or shorter boxes made to order.

Hickory Axle Stocks—Perfectly seasoned, grooved and fitted to National Tubular Axles.

For N. T. Axles. Trade No. 1	2	3	4	4½	5
Size	2½	2¾	2¾	2¾	3¼
Price list	\$1 50	1 80	2 10	2 40	3 00

Subject to same discount as axles.

Skein Screws—



Same list as Coach and Lag Screws, page 62.

Singletree Ferrules and Hooks—★



				Per 100
No. 55,	1¾ in. ferrule,	7-16 in. hook		\$12 20
" 55½,	1¾	" 7-16	"	12 20
" 56,	1½	" 7-16	"	9 30
" 57,	1¾	" ¾	"	8 10
" 58,	1¼	" ¾	"	7 60

Short Singletree Hooks with Heavy Ferrules—★

To pull from ferrule. Per 100

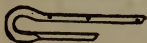
No. 60,	1¾ in. ferrule,	7-16 in. hook	\$12 20
" 61,	1½	" 7-16	9 30
" 62,	1¾	" ¾	8 10



Singletree End Clips and Hooks—★

			Per 100
No. 46,	½ in. round part,	7-16 in. hook	\$10 60
47,	7-16	" ¾	8 50
" 48,	¾	" 5-16	6 50
" 49,	11-32	" 9-32	6 20

Singletree Straps—



Whole length	19½ in.
Round part,	½ in. 5/8 in.
Bent	\$6.50 \$8.00 per 100
St.aight ..	6.00 7.50 "



ALL PRICES SUBJECT TO DISCOUNT.

Singletree Center Clips and Rings—★

		Per 100.
No. 34,	$\frac{3}{4}$ in. round part, $\frac{5}{8}$ in. ring	\$21.00
" 35,	$\frac{5}{8}$ in. " 9-16 "	13.80
" 36,	$\frac{5}{8}$ in. " $\frac{1}{2}$ "	13.00
" 37,	9-16 in. " $\frac{1}{2}$ "	11.50
" 38,	9-16 in. " 7-16 "	11.00
" 39,	$\frac{1}{2}$ in. " 7-16 "	9.20

Singletree Center Clips, Twisted—★

		Per 100.
No. 50,	$\frac{3}{4}$ in. round part	\$19.00
" 51,	$\frac{5}{8}$ in. " "	10.60
" 52,	9-16 in. " "	9.00
" 53,	$\frac{1}{2}$ in. " "	7.80

Straight—★

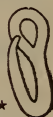
		Per 100.
No. 10,	$\frac{3}{4}$ in. r'd part, 13 in. whole l'gth.	\$14.50
" 11,	$\frac{3}{4}$ in. " 12 in. "	13.30
" 12,	$\frac{5}{8}$ in. " 11 in. "	8.50
" 13,	9-16 in. " 10 in. "	6.80
" 14,	$\frac{1}{2}$ in. " 9 in. "	5.20
" 15,	7-16 in. " 8 in. "	4.20

**Singletree End Clips, Straight—★**

		Per 100.
No. 16,	$\frac{5}{8}$ in. r'd part, 11 in. whole l'gth.	8.20
" 17,	9-16 in. " 10 in. "	6.50
" 18,	$\frac{1}{2}$ in. " $8\frac{1}{2}$ in. "	5.00
" 19,	7-16 in. " $7\frac{1}{2}$ in. "	3.90
" 20,	$\frac{3}{8}$ in. " 7 in. "	3.20

Singletree Hooks—★

No. 64,	7-16 in.	\$4.60 per 100.
" 65,	$\frac{3}{8}$ in.	3.70 "
" 66	5-16 in.	2.70 "

**Neckyoke Ferrules and Rings—★**

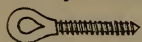
		Per 100.
No. 80,	$1\frac{1}{4}$ ferrule, 7-16x $3\frac{1}{4}$ ring.	\$11.30
" 81,	$1\frac{1}{2}$ " 7-16x $3\frac{1}{4}$ "	8.70
" 82,	$1\frac{3}{8}$ " $\frac{3}{8}$ x3 "	7.70
" 83,	$1\frac{1}{4}$ " $\frac{3}{8}$ x3 "	7.10

**Neckyoke Center Irons—★**

No.		Per 100.
78,	7-16 eye, $\frac{3}{8}$ links, 9-16x $3\frac{1}{4}$ ring...	\$25.00
79,	$\frac{1}{2}$ " 7-16 " $\frac{5}{8}$ x $3\frac{1}{2}$ " ...	31.00

ALL PRICES SUBJECT TO DISCOUNT.

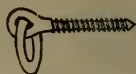
Neckyoke Screw Eyes—



$\frac{1}{2}$ in., $4\frac{1}{2}$ in. whole length.....\$4.30 per 100.
9-16 in., $4\frac{1}{2}$ in. " " 4.80 "

Neckyoke Screw Eyes and Rings—

$\frac{1}{2}$ in. eye, $3\frac{3}{4}$ in. ring.....\$7.50 per 100.
9-16 in. " 7-16 in. " 8.00 "



Neckyoke Plates—

Shown in cut of center irons, page 197.....5½c. per pair.

Tongue and Evener Plates—

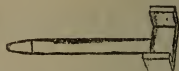
Wrought Tongue.....9½c. per lb.
" Evener.....8 c. "



Wagon Wrenches—

Per lb.

Steel, $2\frac{1}{8}$, $2\frac{1}{4}$, $2\frac{1}{2}$, $2\frac{3}{4}$ in. opening ...8c.

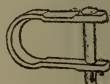


Pole Caps with Hold-Back—

Bent in one piece.....15c. each.

Wrought Evener Clevises—

No. 3430A. Round Pin. $2\frac{1}{8}$ in. opening;
 $3\frac{1}{2}$ in. long inside pin; $4\frac{3}{4}$ in. whole
length.....7½c per lb.



No. 3415a. Round Pin; Clevis
Clip and Stay Chain Ring.
 $1\frac{1}{4}$ in. opening for evener...7½c. per lb.

Hammer Straps—



Light.....5½c. each
Heavy.....7½c. "

Reach or Coup!ng Plates—

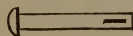


Wrought.....7c. per lb.
Cast, with flanges.....4¾c. "
" Nos..... 0 1 2 3 4



Cast. In. betw. flanges, 3 $3\frac{3}{8}$ 4 $4\frac{1}{4}$ $4\frac{1}{2}$ Wrought.

Reach Pins—

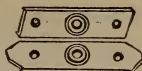


9-16x $4\frac{1}{2}$ in.....4½c. each.
 $5\frac{1}{8}$ x $4\frac{1}{2}$ in.....5 c. "
 $3\frac{1}{4}$ x $4\frac{1}{2}$ in.....7½c. "

ALL PRICES SUBJECT TO DISCOUNT

Bolster Plates, Wrought—*

2¼	2¾	3	3¼	3½	3¾	4	inch.
\$0.60	.65	.70	.75	.80	.90	1.00	pr pair.

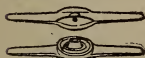


Boister Plates, Cast—

9	10	11	16	18	inch.
4¾c per pound.					



Wachholtz's Transom Plates—*



Malleable iron.

For Platform, Spring and Truck Wagons.

No. 4, 2¼ in. wide, 22 in. long, 7/8 in. hole.....	12c. per lb.
" 5, 2½ in. " 22 in. " 7/8 in. ".....	12c. per lb.

For Heavy Truck and Stake Wagons.

Nos.....	1a	2a	3a
Width, inches.....	2¼	2¾	3¼
Length, ".....	23½	23½	26
Price, cts. per lb.....	12	12	12

"S. D. K." Transom Plates, for Platform Wagons—

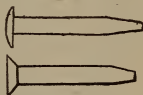
Length.	Bet. flanges.	Holes.	Pounds	Price per lb.
9 in.	1¾ in.	¾ in.	7 about	4¾c.
14 "	2 "	1 "	12 "	4¾c.
15 "	2¼ "	1 "	17 "	4¾c.
16 "	2½ "	1 "	25 "	4¾c.

Steel King Bolts—Wagon.

¾, 1, 1½, 1¾ dia., 14 in. long.... 5½c. per lb.

Countersunk and button head.

For sleighs, 1 x 10 in. long..... 5½c. per lb.



Box Rods—



Victor—Eye and collar welded solid in one piece.

Narrow track, ¾ in. 3 ft. 3 in. long.. 10c. each.

Wide " ¾ in. 3 ft. 9 in. " 10½c. "



Malleable Collar—

Narrow track, ¾ in. 3 ft. 3 in. long..... 10c. each.

Wide " ¾ in. 3 ft. 9 in. "..... 10½c. "

Plain Eye, with collar, narrow track, ¾ in. 3 ft. 3 in. long 9½c. "

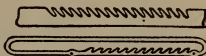
" " " " " ¾ in. 3 ft. 9 in. " 10c. "

7-16 in. box rods..... 2½c. each extra.

ALL PRICES SUBJECT TO DISCOUNT.

Brake Ratchets, Wrought—

Plain.....16c. each
With Guard.....40c. "



Brake Lock Shoes—

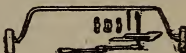
Cast, 3x4 $\frac{3}{4}$ in., 4 lbs. per pair.....4 $\frac{3}{4}$ c. per lb.

White's Adjustable Wagon Brakes—

Price each. $\frac{7}{8}$ 1 in. roller bar.

With inside lever and lock..\$4.50 \$4.80

With outside ratchet & lever 5.00 5.30



Minor Wagon Box Cleat, Steel—

Sizes 10 12 14 16 inch.

\$0.64 .84 1.00 1.10 per set of four.

The usual wooden cleat is the first part of a wagon box to wear out. This steel cleat will not get loose nor wear out, and can be used for replacing worn out wooden cleats. State size wanted.

Hurlbut's Brakes—

For Farm Wagons.

No. 2. With Steel Ratchet. 60c each.

" 2. " Cast " 56c "

The steel ratchet is a valuable improvement.



Pella Wagon Brakes—

No. 1. For heavy farm wagons.....70c each.

" 2. For regular farm wagons.....65c "

" 3. For one-horse wagons.....60c "

Lever made of steel. Throws the rub block farther from the wheel than do other brakes.



B. & W. Wagon Stakes—

Malleable Iron.

Price per set of four.....\$2.40

These stakes are broad at base to preserve the wagon bed. No mortising of bolster. Easily put on.



ALL PRICES SUBJECT TO DISCOUNT.

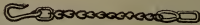
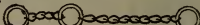


Hay Rack Irons—

Wenzelmann's patent Brackets and Clamps.
To take the place of bolts in hay racks.

No.	Length of Clamps.	Per dozen sets.
0.	12 in.	\$19.20
1.	14 "	20.00
2.	16 "	21.20
3.	18 "	22.40

Wagon Chains—

Stay	$\frac{1}{4}$	5-16	$\frac{3}{8}$ in.		
	\$8.20	7.20	6.70	per 100 lbs.	
Tongue	8.20	7.20	6.70	"	
Lock	9.20	8.20	7.70	"	

Regular lengths, stay 26 in., tongue

33 in., lock 42 in.

SPREADER CHAINS.....\$13.00 per 100 lbs.



Seat Hooks—

Wrought, $2\frac{1}{2}$, $3\frac{1}{2}$, $4\frac{1}{2}$ in. long $7\frac{1}{2}$ c per lb.

Seat Springs—

Regular.

$1\frac{1}{4}$ x2x24 in.....	\$0.90	per pair.
$1\frac{3}{8}$ x2x25 in.....	.95	"
$1\frac{1}{2}$ x2x26 in.....	1.00	"
$1\frac{3}{4}$ x3x28 in.....	1.50	"
$1\frac{3}{8}$ x3x28 in.....	1.60	"
$1\frac{1}{2}$ x3x28 in.....	1.70	"



Spencer Lap Seat Springs—

For farm wagons, long spring..\$3.50 per pair.

For trucks, short spring 3.50 "



Truck Seat Springs—

Size $1\frac{1}{2}$ x2x20 in.....\$1.70 per pair.

Style same as elliptic express wagon springs. Intended
for heavy service.

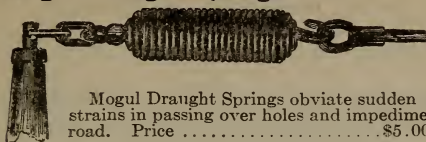


Spring Buffers—

Rubber $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$, and 2 in. .36c. per lb.

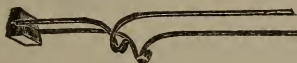
ALL PRICES SUBJECT TO DISCOUNT.

Mogul Draught Springs—



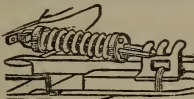
Mogul Draught Springs obviate sudden jerks and strains in passing over holes and impediments on the road. Price\$5.00 per pair.

Lindquist's Tongue Supports—



Steel $\frac{5}{8}$ in. \$24.00 doz.
" $\frac{3}{4}$ in. 30.00 doz.

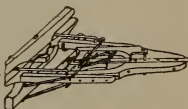
Acme Pole and Shaft Supports—



No.	Spring.	
0.	5-16 in. .	\$14.40 per doz.
1.	$\frac{3}{8}$ in....	16.80 "
2.	7-16 in....	19.20 "

Torsion Tongue Supports—

$\frac{5}{8}$ inch, double bend
with chain\$1.50 per set.
 $\frac{3}{4}$ inch double bend
with chain. 1.70 "



Tectonius' Bolster Springs—★

Bar and end irons included. Sizes 36, 38, 42 and 44 inches.
2,000 lbs. capacity\$5.20 per set.
3,000 " 6.00 "
4,000 " 7.20 "



X. X. X. Bolster Springs—

Sp'gs.	Cap.	Per set.	Sp'gs.	Cap.	Per set.
1 $\frac{1}{2}$ x3	1,000 lbs....	\$5.50	2 x 7	5,000 lbs..	\$10.40
1 $\frac{1}{2}$ x4	1,500 lbs....	6.00	2 $\frac{1}{2}$ x 6	6,000 lbs..	12.80
1 $\frac{1}{2}$ x5	1,500 lbs....	6.00	2 $\frac{1}{2}$ x 7	7,000 lbs..	14.00
1 $\frac{3}{4}$ x4	2,000 lbs....	7.00	2 $\frac{1}{2}$ x 8	8,000 lbs..	15.00
1 $\frac{3}{4}$ x5	2,500 lbs....	8.00	2 $\frac{1}{2}$ x 9	9,000 lbs..	16.50
2 x5	3,000 lbs....	8.80	2 $\frac{1}{2}$ x10	10,000 lbs..	19.00
2 x6	4,000 lbs....	9.60			

Above list is for 38 in. springs.

For 40 and 42 in. springs add to list \$1.00.

For 44 in. springs add to list \$2.00.

For wide track wagons add to list \$1.00.

ALL PRICES SUBJECT TO DISCOUNT.

"Glover" Patent Wagon Bolster Springs—

We are Sole Agents in Chicago for the sale of these Bolster Springs, which contain features to be found in no other styles.



Manufacturers claim these Springs have no wearing-points, no end motion, no friction; will not rattle; prevent all vibration of the wagon box, (side motion). They are longest where the load is light, making them easy riders, as the bearing points *rock in* instead of *out* as the load depresses the Springs. The Springs are given much greater carrying capacity than others made from the same size steel.

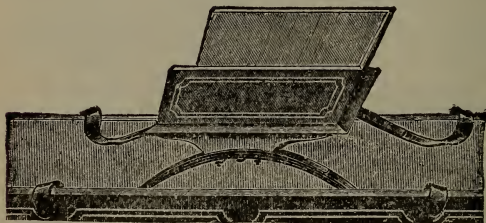
Price List Glover Patent Wagon Bolster Springs.*

Per set.			Per set.		
1,000 lbs. capacity.....	\$10 00		5,000 lbs. capacity.....	\$15 00	
1,500 " "	11 00		6,000 " "	18 00	
2,000 " "	12 10		7,000 " "	20 00	
2,500 " "	13 00		8,000 " "	22 00	
3,000 " "	13 50		9,000 " "	24 00	
4,000 " "	14 00		10,000 " "	26 00	

Springs for wide track wagons, \$1.00 per set, net extra.

"Glover" Patent Wagon Seat Springs—

S. D. Kimbark Co., Sole Agents in Chicago. Correspondence invited.



Manufacturers claim that these Springs work perfectly, *will not rub or wear* the top of the wagon box; *require no fixtures* for attaching; ride easily and have the same carrying capacity as the old style elliptic seat springs.

Price List Glover Patent Wagon Seat Springs.*

Farm Wagon Seat Springs, 2 leaf, 1½ in. wide.....	\$1.00	per pair.
3 " " 1½ in. "	1.25	" "

ALL PRICES SUBJECT TO DISCOUNT.

SPRINGS.

Elliptic, Concord, Half, Half-Scroll, Platform, Express and Truck. Black, Half-Black and Bright.

Plates $1\frac{1}{4}$ in. wide and over, and 34 in. long and over,
Base price c. per lb.

STANDARD LIST OF EXTRAS.

Orders for less than 25 pairs of a kind

and size	Net	$\frac{1}{2}$ cent per lb.
Springs with ribs.....	" $\frac{1}{4}$	" " "
" Cast Steel.	" 2	" " "
" French Scroll and Platform Coach.....	" $1\frac{1}{2}$	" " "
" Elliptic two plate	" 2	" " "
" Elliptic 31 in. to 33 in. long ...	" 1	" " "
" " 28 in. to 30 in. long ...	" 2	" " "
" " less than 28 in long ...	" 3	" " "
" made from $1\frac{1}{8}$ in. steel	" 1	" " "
" graded to and including No. 5 steel	" 1	" " "
" graded to and including No. 6 steel	" 2	" " "
" Brewster and Top without shackles	" 1	" " "
" Longitudinal	" 1	" " "
" with scroll or curved ends	" $\frac{1}{2}$	" " "
" with plates bent edgewise (for each bend)	" $\frac{1}{2}$	" " "
" with lips	" $\frac{1}{2}$	" " "
" rust proof	" 3	" " "
" with riveted plates	" 10 cts. per rivet.	
" Open head, Rubber and Brass Bushed, round nuts.....	" 75 cents per pair.	
" Open head, Steel or Fibre Bushed square nuts.	" 40	" " "
" Open head, without Bushings .	" 25	" " "
Round nuts if not with Rubber Bushing. "	" $2\frac{1}{2}$ cents each.	

We carry in stock Open-Head Springs as follows, graded for front and back.

Open Head $1\frac{1}{4}$ by 3 and 4 leaf by 36 in. long.

" " $1\frac{1}{4}$ by 4 and 4 leaf by 36 in long.

" " with brass and rubber bushings $1\frac{1}{4}$ by 4 and 4 leaf by 36 in. long.

Other sizes and styles made to order.

ALL PRICES SUBJECT TO DISCOUNT.

ILLUSTRATIONS OF SPRINGS.

The dotted lines show the correct points for measurements.
For length of Elliptic Springs measure from outside to outside; for height, measure inside.

For Platform Side Springs measure length of each end from center of eye to center of bolt hole; for height, measure inside.
For Cross Springs measure across from center to center of eyes.

For Scroll Springs measure across from center to center of eyes; height inside.

For length of Bolster Springs measure from outside to outside. If slotted, length and width of slot; height inside.



No. 5. Elliptic, button head.



No. 7. Double Sweep. button head.



No. 7½. Half Double Sweep. Berlin head.



No. 8. Regular Elliptic. Berlin head.



No. 9. Full Coach Scroll.



No. 10. Coach Platform, button head.



No. 15. Scroll End Platform Side, bolt out of center.



No. 12. Coach Platform Cross.



No. 16. Scroll End Platform Cross. bolt in center.



No. 23½. Bolster or Relief Spring.

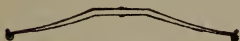


No. 27. Scroll Spring, with links.

ALL PRICES SUBJECT TO DISCOUNT.

ILLUSTRATIONS OF SPRINGS.

Continued.

No. 11, Coach platform,
French Head.No. 18, Double sweep,
Concord side.No. 19½, Angular side, with
or without loops.

No. 20, Loop and eye truck.



No. 21, Straight end truck.

No. 20½, Loop and plain end
truck, to go under axle.

Any shape springs made with ribs if so desired.

**Wrought Iron
Spring Blocks—***

In ordering give size of axle and width of springs for each set wanted.

Width of Spring.	Size of Axle.	Thickness of Block in Center.	Drilled	Price per set.
1½	1⅜	11-16	5-16	\$0.90
1¾	1⅜	11-16	5-16	1.00
1¾	1½	¾	5-16	1.10
2	1½	¾	¾	1.25
2	1⅝	13-16	¾	1.40
2¼	1⅝	13-16	¾	1.50
2¼	1¾	7/8	¾	1.75
2½	1¾	15-16	¾	1.90
2½	1⅞	1	¾	2.00
2½	2	1	¾	2.00
2½	2⅛	1	¾	2.10
2½	2¼	1	¾	2.20
2¾	2	1	¾	2.30
2¾	2⅛	1	¾	2.40
2¾	2¼	1⅛	¾	2.60
3	2¼	1⅛	¾	3.00
3	2⅝	1⅛	¾	3.25
3	2½	1⅛	¾	3.60
3½	2½	1⅛	7-16	4.50
3½	2¾	1⅛	7-16	5.00

ALL PRICES SUBJECT TO DISCOUNT.

Approximate Weights of ELLIPTIC SHAPED SPRINGS

	Pounds per pair.		Pounds* per pair.
$1\frac{1}{4}$ x 2 x 28.....	17	$1\frac{1}{2}$ x 6 x 36.....	61
$1\frac{1}{4}$ x 2 x 30.....	19	$1\frac{1}{2}$ x 6 x 38.....	63
$1\frac{1}{4}$ x 2 x 32.....	21	$1\frac{3}{4}$ x 4 x 36.....	54
$1\frac{1}{4}$ x 2 x 34.....	22	$1\frac{3}{4}$ x 4 x 38.....	58
$1\frac{1}{4}$ x 3 x 28.....	21	$1\frac{3}{4}$ x 5 x 36.....	66
$1\frac{1}{4}$ x 3 x 30.....	23	$1\frac{3}{4}$ x 5 x 38.....	68
$1\frac{1}{4}$ x 3 x 32.....	25	$1\frac{3}{4}$ x 6 x 34.....	70
$1\frac{1}{4}$ x 3 x 34.....	27	$1\frac{3}{4}$ x 6 x 36.....	72
$1\frac{1}{4}$ x 3 x 36.....	30	$1\frac{3}{4}$ x 6 x 38.....	78
$1\frac{1}{4}$ x 4 x 34.....	34	$1\frac{3}{4}$ x 7 x 36.....	78
$1\frac{1}{4}$ x 4 x 36.....	37	$1\frac{3}{4}$ x 7 x 38.....	82
$1\frac{1}{4}$ x 4 x 38.....	39	$1\frac{3}{4}$ x 8 x 34.....	96
$1\frac{1}{2}$ x 5 x 34.....	37	2 x 4 x 36.....	56
$1\frac{1}{2}$ x 5 x 36.....	42	2 x 4 x 38.....	64
$1\frac{1}{2}$ x 5 x 38.....	45	2 x 5 x 36.....	72
$1\frac{1}{2}$ x 3 x 34.....	30	2 x 5 x 38.....	76
$1\frac{1}{2}$ x 3 x 36.....	32	2 x 6 x 34.....	86
$1\frac{1}{2}$ x 4 x 34.....	38	2 x 6 x 36.....	92
$1\frac{1}{2}$ x 4 x 36.....	40	2 x 6 x 38.....	98
$1\frac{1}{2}$ x 5 x 34.....	45	2 x 7 x 34.....	96
$1\frac{1}{2}$ x 5 x 36.....	47	2 x 7 x 36.....	100
$1\frac{1}{2}$ x 5 x 38.....	50	2 x 7 x 38.....	105
$1\frac{1}{2}$ x 3 x 34.....	34	2 x 8 x 34.....	112
$1\frac{1}{2}$ x 3 x 36.....	36	2 x 8 x 36.....	116
$1\frac{1}{2}$ x 4 x 34.....	42	2 x 9 x 34.....	120
$1\frac{1}{2}$ x 4 x 36.....	44	$2\frac{1}{2}$ x 7 x 34.....	111
$1\frac{1}{2}$ x 4 x 38.....	48	$2\frac{1}{2}$ x 8 x 34.....	120
$1\frac{1}{2}$ x 5 x 34.....	50	$2\frac{1}{2}$ x 9 x 34.....	136
$1\frac{1}{2}$ x 5 x 36.....	52	$2\frac{1}{2}$ x 8 x 36.....	148
$1\frac{1}{2}$ x 5 x 38.....	56		

For length, measure from outside to outside.
For height, measure inside of spring.

When not specified, we make all Elliptic springs
without holes and with Button Head.

ALL PRICES SUBJECT TO DISCOUNT.

Approximate Weights of PLATFORM SPRINGS

Width.	Side	Cross.	Side.	Cross.	Average Weight per set.
1 1/4	x 3 and 4	x 36 and 38	4 Side and 2 Cross to Set.	lbs.	58
1 1/4	x 3 and 4	x 38 and 40		67	
1 1/4	x 4 and 5	x 38 and 40		80	
1 1/4	x 4 and 5	x 38 and 40		75	
1 1/4	x 4 and 5	x 38 and 40		83	
1 1/4	x 5 and 6	x 38 and 40		100	
1 1/4	x 4 and 5	x 38 and 40		96	
1 1/4	x 4 and 5	x 38 and 40		105	
1 1/4	x 5 and 6	x 38 and 40		114	
1 1/4	x 5 and 6	x 40 and 42		120	
1 1/4	x 6 and 7	x 40 and 42		140	
1 1/4	x 4 and 5	x 38 and 40		115	
1 1/4	x 4 and 5	x 40 and 42		125	
1 1/4	x 5 and 6	x 38 and 40		130	
1 1/4	x 5 and 6	x 40 and 42		140	
1 1/4	x 6 and 7	x 40 and 42		170	
1 1/4	x 5 and 6	x 40 and 42		185	
2	x 5 and 6	x 40 and 42		180	
2	x 6 and 7	x 40 and 42		195	
2	x 6 and 7	x 42 and 44		200	
2	x 7 and 8	x 40 and 42		215	
2	x 7 and 8	x 40 and 42		225	
Width.	Side.	Cross.	Side.	Cross.	Average Weight per set.
2	x 7 and 8	x 42 and 44	4 Side and 2 Cross to Set.	lbs.	240
2 1/4	x 6 and 7	x 40 and 42		240	
2 1/4	x 6 and 7	x 42 and 44		250	
2 1/4	x 7 and 8	x 40 and 42		263	
2 1/4	x 7 and 8	x 42 and 44		275	
2 1/4	x 7 and 8	x 40 and 42		290	
2 1/4	x 7 and 8	x 42 and 44		320	
2 1/4	x 8 and 9	x 40 and 42		325	
2 1/4	x 8 and 9	x 42 and 44		345	
2 1/4	x 9 and 10	x 40 and 42		360	
2 1/4	x 9 and 10	x 42 and 44		380	
2 1/4	x 10 and 11	x 40 and 42		390	
2 1/4	x 10 and 11	x 42 and 44		400	
2 1/4	x 8 and 9	x 40 and 42		370	
2 1/4	x 8 and 9	x 42 and 44		382	
2 1/4	x 9 and 10	x 42 and 44		436	
2 1/4	x 10 and 11	x 42 and 44		514	
2 3/4	x 12 and 14	x 42 and 44		583	
3	x 11 and 12	x 40 and 42		545	
3	x 12 and 13	x 40 and 42		620	
3	x 14 and 16	x 40 and 42		677	

ALL PRICES SUBJECT TO DISCOUNT.

APPROXIMATE WEIGHTS OF SPRINGS.**Coach Platform Springs.**

2 side and 1 cross to a set.

1¼x3 and 3x34 and 32 in.	34 lbs per set.
1¼x4 " 4x36 " 34 in.	41 "
1¼x5 " 5x36 " 34 in.	38 "
1½x3 " 3x36 " 34 in.	42 "
1½x4 " 4x36 " 34 in.	50 "
1½x5 " 5x38 " 36 in.	59 "
1¾x5 " 5x40 " 38 in.	73 "

Weights of Concord Side Springs.

Measure length and height same as Platform.

Made without loops and without holes unless ordered.

Lbs. per pr.	Lbs. per pr.	Lbs. per pr.
1¼x4x50.....28	1½x4x50 ....32	1¾x4x50 ....38
1¼x4x52.....30	1½x4x52....35	1¾x4x52 ....43
1¼x5x50.....34	1½x5x50....39	1¾x5x50 ....44
1¼x5x52.....37	1½x5x52....40	1¾x5x52....48
1⅜x4x50.....30	1½x5x54 ....42	1¾x5x54 .....52
1⅜x4x52.....33	1½x6x52 ....49	2x5x56 .....62
1⅜x5x50.....37	1½x6x54 ....54	2x6x60 .....76
1⅜x5x52.....40		

Weights of Bolster or Relief Springs.

Lbs. per pr.	Lbs. per pr.
1½x4x42.....30	1¾x8x42 .....62
1½x5x42.....37	2 x5x42 .....50
1½x6x42.....42	2 x6x42 .....57
1½x7x42.....49	2 x7x42 .....65
1¾x5x42.....45	2 x8x42 .....68
1¾x6x42.....50	2¼x9x42 .....106
1¾x7x42.....55	2¼x10x42 .....110

ALL PRICES SUBJECT TO DISCOUNT.

APPROXIMATE WEIGHTS OF TRUCK SPRINGS.

If loop end, measure for length from center of eye to center of curve in farther end of loop. If straight end, measure from center of eye to plain end. Bolt is always put one-half inch out of center, toward the eye, unless otherwise ordered.

Approximate Weight.

	Pounds per pair.		Pounds per pair.		Pounds per pair.
2½ x 6 x 44.....	70	2½ x 11 x 44.....	150	3 x 15 x 48.....	258
2½ x 7 x 44.....	80	2½ x 12 x 44.....	170	3 x 16 x 48.....	262
2½ x 8 x 44.....	90	2½ x 9 x 48.....	140	3 x 17 x 50.....	310
2½ x 9 x 44.....	100	2½ x 10 x 48.....	170	3 x 18 x 50.....	328
2½ x 10 x 44.....	110	2½ x 11 x 48.....	180	3½ x 20 x 52.....	520
2½ x 8 x 44.....	120	3 x 12 x 48.....	195	3½ x 21 x 52.....	525
2½ x 9 x 44.....	130	3 x 13 x 48.....	228	3½ x 22 x 52.....	530
2½ x 10 x 44.....	140	3 x 14 x 48.....	244		

ALL PRICES SUBJECT TO DISCOUNT.

Brewster Springs—

Nos.	WIDTHS.	LEAVES IN A FRONT SPRING	LEAVES IN A BACK SPRING.	AVERAGE LENGTHS. FRONT AND BACK.
				inches.
1	1 $\frac{1}{4}$	2	3	23 " 30 "
2	1 $\frac{1}{4}$	3	4	24 " 30 "
3	1 $\frac{3}{8}$	2	3	24 " 30 "
4	1 $\frac{3}{8}$	3	4	24 " 30 "
5	1 $\frac{3}{8}$	4	5	25 " 30 "
6	1 $\frac{1}{2}$	3	4	25 " 30 "
7	1 $\frac{1}{2}$	4	5	26 " 30 "

Half bright, with malleable shackles, no bushings.

Nos.	1	2	3	4	5	6	7
	\$2.50	2.75	3.00	3.25	4.00	4.25	4.50 per set.

Odd Brewster Springs—

	Body.	End.
1 $\frac{1}{4}$ x2 and 3 leaves.....	\$1.20	\$0.87 each.
1 $\frac{1}{4}$ x4 leaves.....	1.33	1.00 "
1 $\frac{3}{8}$ x3 "	1.67	1.20 "
1 $\frac{3}{8}$ x4 "	1.80	1.33 "
1 $\frac{3}{8}$ x5 "	2.00	1.53 "
1 $\frac{1}{2}$ x4 "	2.00	1.53 "
1 $\frac{1}{2}$ x5 "	2.20	1.67 "

Of lengths given in list of full sets.

Brass Bushings for Brewster and Timken Springs—

Price, 8 to a set.....38c. per set.

Spring Bolts—★

For ends of springs. Large oval heads, square nuts.



Price per 100.

2 $\frac{3}{4}$ x5-16 in....\$4.20	2 $\frac{3}{4}$ x $\frac{3}{8}$ in....\$5.60	3 x7-16 in....\$ 8.20
2 $\frac{1}{2}$ x5-16 in.... 4.40	3 x $\frac{3}{8}$ in.... 5.80	3 x $\frac{1}{2}$ in.... 10.00
2 $\frac{3}{4}$ x5-16 in.... 4.50	2 $\frac{3}{4}$ x7-16 in.... 8.00	3 $\frac{1}{2}$ x $\frac{1}{2}$ in.... 10.50

Coach Spring Bolts—★

For Rubber Head Springs,

Each bolt furnished with a brass tube and a rubber tube.

3x7-16 in. bolt. Square shoulder. Head 1 $\frac{1}{2}$ in. diameter, $\frac{3}{8}$ in. thick at center. Brass tube 9-16 in. Rubber tube 1 in. diameter outside. For large rubber open head springs.....50c. each.

ALL PRICES SUBJECT TO DISCOUNT.



Loose.

Platform Spring Shackles—★



Solid. Loose.

No. 0 for 1½ in. springs, ¾ holes.....				\$1 50	 per set.
" 1 "	1¾	"	¾	"	1 65
" 2 "	1½	"	¾	"	1 65
" 3 "	1¾	"	7-16	"	1 75
" 4 "	2	"	½	"	2 00
" 5 "	2¼	"	9-16	"	2 25
" 6 "	2½	"	5/8	"	2 75
" 7 "	2¾	"	¾ or 5/8	"	3 25
" 8 "	3	"	¾ or 5/8	"	3 50

Platform Body Couplings—★

Swaged and straight ear patterns same list.



Swaged.

No. 2 for 1½ in. springs				¾ holes.....	Per pair.		
"	3	"	1¾	"	7-16	"	2 00
"	4	"	2	"	½	"	2 25
"	5	"	2¼	"	9-16	"	2 50
"	6	"	2½	"	5/8	"	3 00
"	7	"	2¾	"	¾ or 5/8	"	3 50
"	8	"	3	"	¾ or 5/8	"	4 00



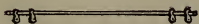
Straight Ear.

Splinter Bar Spring Shackles—★



No. 2 for 1½ in. springs, ¾ holes, 1 x7-16 bar						Per pair.
" 3 "	1¾	"	7-16	"	1 x ½	1 50
" 4 "	2	"	½	"	1½x9-16	1 75
" 5 "	2¼	"	9-16	"	1¼x 5/8	2 00
" 6 "	2½	"	5/8	"	1¼x ¾	2 25
" 7 "	2¾	"	¾ or 5/8	"	1¾x 7/8	2 50
" 8 "	3	"	¾ or 5/8	"	1½x 7/8	3 15

Side Spring Equalizers or Connecting Rods—



T. & E., ½ and 5/8 inch....\$1.35 per set.
 T. & E., ¾ inch..... 1.70 "

Plates.....  ...\$0.40 per set.

ALL PRICES SUBJECT TO DISCOUNT.

Half-Patent Double Collar Steel Axles—★ Price per set.

	Price per set.									
	$\frac{3}{4}$ to 1	1	1 1-16	1 1/8	1 3-16	1 1/4	1 3/8	1 1/2	1 5/8	2
No. 11, Long Bed.....	\$5.50	\$6.00	\$6.50	\$7.00	\$7.50	\$8.50	\$12.00	\$15.00	\$18.00	\$23.00
" 12, Short Bed.....	4.50	5.00	5.25	5.75	6.25	7.00	9.50	12.50	15.50	20.00

Extra Quality (Best), Steel Axles, Double Collars—★ Price per set.

	Price per set.									
	$\frac{5}{8}$ to $\frac{3}{4}$	13-16 to 15-16	1	1 1-16	1 1/8	1 3-16	1 1/4	1 3/8	1 1/2	1 5/8
No. 19, Long Bed.....	\$9.00	\$9.50	\$10.50	\$12.00	\$13.50	\$15.25	\$17.60	\$21.00	\$25.00	\$30.00
" 20, Short Bed.....	7.00	7.50	8.00	8.50	9.00	10.75	12.50	16.50	19.00	24.00

Half Patent Axles, Extras per Set, Net, on Nos. 7 to 22 Axles.

	SIZES.				
	$\frac{3}{4}$ to 1 1/4	1 3/8 & 1 1/2	1 5/8 to 2	2 1/4	
Case Hardening.....	\$0.25	\$0.50	\$1.25	\$1.50	
Steel Converting.....	.50	.75	1.75	.....	
Coach Beds.....	.05	.30	1.00	.....	
Fan Bed, Plain Swage.....	.05	.....	.....	.....	
Fan Bed, Plain Swage and Spotted.....	.50	.....	.....	.....	
Welding Fan Beds and other shapes not made in one piece.....	.15	.....	.....	.....	
One Piece, Square, Square and Round, Straight Swage.....	.10	.20	.....	.....	
One Piece, Full Coach, Square, Octagon and Round.....	.15	.50	1.00	.....	
One Piece, with Square Centers, Full Coach.....	.20	.....	.....	.....	
One Piece, Square and Round, Square and Octagon, with Square Center.....	.15	.....	.....	.....	
For Beds over 28 in. long, not to exceed 31 in.....	.10	.....	.....	.....	

Cranking Half Pat. Axles, Moyer, Bradley and similar forms, with one Sq. Crank, 1 1/4 inch, 75c; two Sq. Cranks to 1 1/4 inch inclusive, \$1.50.
 Extra charge for Packing Cases, Short Beds, 2 cts. per set, Long Beds, 4 cts. per set. No Case to be charged at less than 30 cents.

ALL PRICES SUBJECT TO DISCOUNT.

Half-Patent Steel Axles, with Collinge Collars—★

With or without Felt Pads.

No. 11, Long Red

Above list subject to following extras, NET.		For $\frac{3}{4}$ to 1		1-16 and $1\frac{1}{4}$		$1\frac{1}{2}$		$1\frac{3}{4}$		$1\frac{1}{2}$ per set.	
$\frac{7}{8}$	15-16	1	6.00	1-16	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{1}{2}$	per set.	
\$2.50	5.50	6.00	6.50	7.00	8.50	12.00					

Collinge Collars

Felt Pads

We carry in stock $\frac{7}{8}$, 15-16, 1, 1-16, $1\frac{1}{8}$ and $1\frac{1}{4}$ in. Fan Bed Axles and $1\frac{1}{8}$ and $1\frac{1}{4}$ in. Coach and Red Axles.

Porter's Patent Dust Proof Axles—★ LONG DISTANCE. PRICE PER SET.
 These prices are subject to all net extras. See page 214.

LONG BED.		$\frac{3}{4}$ to 15-16		1	1-16	$1\frac{1}{8}$	1-3-16	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	2 in.
Single Nut, without Pad	1	4.20	4.50	5.30	5.50	5.80	6.90	9.40	11.60	13.30	16.10	21.80	
" " with Pad	2	4.50	4.80	5.70	5.90	6.20	7.40	10.10	12.50	14.30	17.40	23.70	
Double " without Pad	3	fitted with Cotter pin.		7.00	7.00	7.30	9.40	11.90	14.10	16.80	19.60	25.30	
" " with Pad	4	fitted with Cotter pin.		7.40	7.40	7.70	9.90	12.60	15.00	17.80	20.90	27.20	
SHORT BEDS.		$\frac{3}{4}$ to 15-16		1	1-16	$1\frac{1}{8}$	1-3-16	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	2 in.
Single Nut, without Pad	5	3.60	3.90	4.50	4.80	5.10	6.00	7.90	10.20	11.90	14.40	17.80	
" " with Pad	6	3.90	4.20	4.90	5.20	5.50	6.50	8.60	11.10	12.90	15.70	19.70	
Double " without Pad	7	fitted with Cotter pin.		6.30	6.30	6.60	8.50	10.40	12.70	15.40	17.90	21.30	
" " with Pad	8	fitted with Cotter pin.		6.70	6.70	7.00	9.00	11.10	13.60	16.40	19.20	23.20	

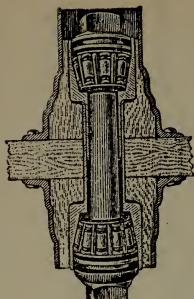
Extra for Ground Fits.

For $\frac{3}{4}$, 15-16, 1 and 1-16 in.	\$1.00 per set.
" $\frac{1}{8}$, 1-3-16 and $1\frac{1}{4}$ in.	2.00 " "
" larger sizes.	3.00 " "

ALL PRICES SUBJECT TO DISCOUNT.

Timken Roller Bearing Axles—

For Light and Heavy Vehicles and Automobiles.

**PRICE PER SET.**

$\frac{7}{8}$	15-16	1	11-16	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$ inch.
\$25.00	25.00	25.00	27.50	30.00	42.50	55.25	68.00
$\frac{15}{16}$					$2\frac{1}{8}$	$2\frac{3}{4}$	3 inch.
\$30.75					131.75	157.25	182.75

Dalzell's Improved Collinge Axles—

$\frac{11}{16}$	13-16	$1\frac{1}{4}$	15-16	$1\frac{3}{8}$	17-16	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$ inch.
\$26.67	27.73	29.37	32.00	34.13	36.27	38.40	48.00	55.47 per set.
24.80	25.60	27.20	28.80	30.80	32.27	34.68	41.60	"
13.00	13.00	14.00	14.00	16.00	16.00	18.00	20.00	"

Coached Beds

 $\frac{11}{16}$

\$26.67

Short Beds.....

24.80

Wrought Boxes, extra, net.....

13.00

ALL PRICES SUBJECT TO DISCOUNT.

Common and Concord Axles, Steel—

In ordering always specify style of Axle Bed wanted.

	Per lb.
No. 1, Common Loose Collar	8 c.
" 1½, " " " new style or upset, fillet in front of collar	9 c.
" 2, Common Solid Collar.....	9 c.
" 3, " " Loose " light beds.....	9 c.
" 4, " " Solid " " ".....	9½ c.
" 5, Concord Express Axles, Loose Collars.....	9½ c.
" 6, " " Solid " " ".....	10 c.
" 606, Highest grade Concord Express Axles. Hardened arms and boxes. Solid Collars.....	11 c.

Net Extras, Nos. 1 to 6.

A	No. 1 Upset.....	¼c. per lb.
B	Coach Shape.....	½c. " "
C	Swaging, Nos. 1 to 6.....	¼c. " "
D	Square and Octagon.....	¼c. " "
E	Sh rt Beds under 20 inches.....	2 c. " "
F	Size under 1½ inches.....	1 c. " "
G	Size over 3 inches.....	1½c. " "
H	Size over 4 inches.....	2 c. " "
I	Case hardening.....	½c. " "
J	Welding Axles.....	1½c. " "
K	No. 1, one piece, square beds.....	½c. " "
L	No. 1, one piece, octagon beds.....	1 c. " "
M	Without Boxes.....	¼c. " "
N	Nos. 2 and 6, one piece.....	1½c. " "
O	Nos. 1 to 6, 30 in. and under between collars, net extra, above one piece and all other extras...	½c. " "
P	Extra for FULL square beds, Nos. 3 and 5, ONE PIECE.....	½c. " "
Q	Extra for Axles furnished with Linch Pins and Washers, or with Linch Pins only.....	¼c. " "
R	{ Extra Washers for Linch Pin Axles.....	10 c. " "
	{ Extra Pins for Linch Pin Axles.....	15 c. " "
S	Extra for drilling for cotter pin.....	¼c. " "
T	No. 1, one piece, hammered with increased size at or behind collar.....	¼c. " "

Half Patent Axle Boxes—

Approximate weight per set.

	¾,	7/8,	1,	1¼,	1½,	1¾,	1¾,	1¾ inch.
	3½	4	4¼	5½	7	10	13	15½ lbs.
Price	18c. per lb.							

Concord Express Axle Boxes—

All sizes.....11c. per lb.

Axle Oil, Baum's Castorine—

1 Case of 12 one-pint cans.....	\$3.35 per case
1 " 12 one quart cans.....	6.00 "
1 " 12 one-gallon cans.....	21.00 "

Washer Cutters—*

Cincinnati No. 1, with gauge.....	\$10.00 per doz.
" No. 2, without gauge..	8.00 "



ALL PRICES SUBJECT TO DISCOUNT.

Axle Washers, Sole Leather—★ Price per hundred.

For $\frac{3}{4}$ in. axle.....	Nut, \$1.75	Collar, \$1.75
" $\frac{7}{8}$ in.	" 1.75	" 2.25
" 15-16 in.	" 1.75	" 2.25
" 1 in.	" 1.75	" 2.50
" 1 1-16 in.	" 2.25	" 2.50
" $1\frac{1}{8}$ in.	" 2.25	" 2.50
" $1\frac{1}{4}$ in.	" 2.50	" 2.75
" $1\frac{3}{8}$ in.	" 2.50	" 3.50
" $1\frac{1}{2}$ in.	" 2.75	" 3.50

Sole Leather—

5 sets in a box.

For $\frac{3}{4}$ in. axles.....	\$0.70 per box.
" $\frac{7}{8}$ in.	.80 "
" 1 in.	.90 "
" $1\frac{1}{8}$ in.	1.00 "
" $1\frac{1}{4}$ in.	1.10 "
" $1\frac{1}{2}$ in.	1.40 "

Coil Leather—Will cut 100 washers per box.

For $\frac{7}{8}$ in. axles.....	18c. per box.
" 1 in. axles.....	20c. "
" $1\frac{1}{8}$ in. axles.....	22c. "
" $1\frac{1}{4}$ in.	28c. "

Step Pads, Forged—★



Nos.	Sizes.	Pattern.	Per doz. pair.
1	3 x $3\frac{1}{2}$ in.	Panel.	\$4.00
2	$3\frac{1}{2}$ x 4 "	"	4.50
3	4 x $4\frac{3}{4}$ "	"	5.50
4	$4\frac{1}{2}$ x $5\frac{1}{2}$ "	"	7.50

Round Step Pads, Forged—★

Sizes.
 $4\frac{1}{2}$ in. diam.
5

Pattern.
Star.

Per doz. pair.
\$4.50
6.00



Front Body Steps, Forged—★

Per pair.

No. 1, 3x $3\frac{1}{2}$ in. pad, Diamond pattern...50c.



Body Steps, Forged—★

No. 2, $3\frac{1}{2}$ x 4 in. pads, figured.

Brace pattern.....\$1.20 per pair.



Brewster Pattern—

No.	Sizes.	Pattern.	Per pair.
No. 1, 3x $3\frac{1}{2}$ in. pads, figured,		6 in. drop.	\$0.95
" 2, $3\frac{1}{2}$ x 4 "		7 in. projection.	1.00
" 3, 4x $4\frac{1}{2}$ "			1.15

ALL PRICES SUBJECT TO DISCOUNT.

Phaeton Steps, Forged—★

$4\frac{1}{2}$ in. round.....	} 7 in. drop, 5½ & 6 in. projec- tion.	} Per pair. \$1.00 1.14
5 ".....		



Phaeton Round.



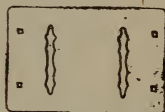
Swan Pattern—★
No. 1, D pad, mat pattern, 5x4¾
in., 7 in. drop, 4½ in. projection, \$1.10 per pair.



No. 1465.



No. 1462.



No. 1480.

Surrey Steps, Rolled Steel—★

No. 1465.

A, T 1½x4¼, drop 8½, proj'tn 16, pad 6x8 in.....	\$1.10 per pair.
B, T 1½x4¼, " 8½, " 18, " 6x8 ".....	1.15 "
C, T 1½x4¼, " 8½, " 20, " 6x8 ".....	1.20 "
D, T 1½x4¼, " 8½, " 16, " 6x9 ".....	1.15 "
E, T 1½x4¼, " 8½, " 18, " 6x9 ".....	1.20 "
F, T 1½x4¼, " 8½, " 20, " 6x9 ".....	1.25 "

T drilled 3 in. from center to center for stock sizes.

Surrey Step Shanks, Rolled Steel—★ No. 1462.

A, T 1½x4¼, 8½ drop, projection 16 in.....	\$0.90 per pair.
B, T 1½x4¼, 8½ " " 18 ".....	.95 "
C, T 1½x4¼, 8½ " " 20 ".....	1.00 "

To be used with No. 1480 A, or B, plates. 11-32 in. holes in
T drilled 3 in. from center to center of hole for stock sizes.
¼ in. holes in shank for step plate.

Surrey Step Plates, Rolled Steel—★ No. 1480.

For Surrey and Cabriolet steps.

A, 6x8 in.....	24c. per pair.
B, 6x9 ".....	26c. "

No. 1485.

B, 6x8 in. with lugs on ends.....	23c. "
C, 6x9 " " ".....	30c. "

In No. 1480, 9-32 in. square fender holes, 3 in. from center to
center. No. 1485, ¼ in. square fender holes, 3¾ in. center to
center. To be used with shanks like No. 1462.

ALL PRICES SUBJECT TO DISCOUNT.



Body Steps, Forged—★

End Spring Pattern.

- No. 1, 3x3½ in. pads, figured,
7 in. drop, 6 in. projection..\$0.95 per pair.
No 2, 3½x4 in. pads, figured,
7 in. drop, 6 in. projection.. 1.00 "
No. 3, 4x4¾ in. pads, figured,
7 in. drop, 6 in. projection.. 1.15 "

Rubber-Pad Body Steps—★

No. 1305B Pad 3½x4 in. T part 1x4 in.
with 11-32 in. holes, 2¾ in. centers. Pro-
jection 5 in. Drop 7 in.

Price, per pair.....\$1.00



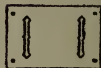
Axle Steps, D Mat Pattern, Forged—★



- No. 0. 2½ in. rise, 9½ in.
projection..... \$0.72 per pair.
No. 1. 3½ in. rise, 6½ in.
projection76 "

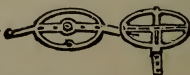
Step Plates, Square Patterns, Forged—★

	Per pair.
9x6 in., 3-16 in. thick.....	.56c.
11x6 " 3-16 " "	.60c.
9 x7 " 3-16 " "	.60c.



Stone's Fifth Wheels—★ For Express Wagons.

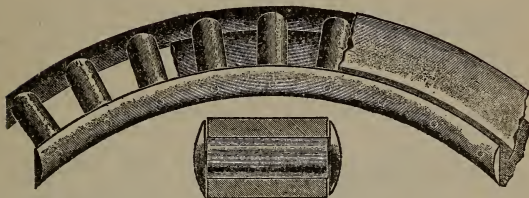
Small size for 1½ in. springs, \$1.90 each.
Large " " 1¾ " " 2.00 "



ALL PRICES SUBJECT TO DISCOUNT.

The King Patent Roller-Bearing Fifth Wheels—★

No Oil or Grease.



Styles.

No. 1. Extra heavy, for Brewery, Machinery, and all heavy work.

No. 2. For Trucks, Business Wagons and Stages.

Nos. 3 and 4. For light Business Wagons and Stages.

Descriptions.	No. 1.	No. 2.	No. 3.	No. 4.
Diameter Rollers.....	13-16 in.	13-16 in.	13-16 in.	13-16 in.
Entire Thickness.....	1 9-16 "	1 7-16 "	1 7-16 "	1 5-16 "
Width, Upper Circle.....	2 "	1 3/4 "	1 1/2 "	1 1/4 "
Width, Lower Circle.....	2 "	1 3/4 "	1 1/2 "	1 1/4 "
Capacity.....	4,000 lbs.	2,500 lbs.	1,500 lbs.	

Prices, Fifth-Wheels Complete.

20 inch Diameter.....		\$8.00	\$8.00	\$8.00
22 " ".....		8.00	8.00	8.00
24 " ".....		8.00	8.00	8.00
26 " ".....		9.00	9.00	9.00
28 " ".....	\$10.00	10.00	10.00	10.00
30 " ".....	11.00	11.00	11.00	11.00
32 " ".....	12.00	12.00	12.00	12.00
34 " ".....	13.00	13.00	13.00	13.00
36 " ".....	14.00	14.00	14.00	.....
38 " ".....	15.00	15.00	.....	.....
40 " ".....	16.00	.....	.....	.....
42 " ".....	17.00	.....	.....	.....
44 " ".....	18.00	.....	.....	.....
46 " ".....	19.00	.....	.....	.....
48 " ".....	20.00	.....	.....	.....

We have large sales of these Roller-Bearing Fifth Wheels. They give perfect satisfaction for ease in turning, durability and in every respect.

We can furnish any diameter between at short notice.

See description and directions on next page.

ALL PRICES SUBJECT TO DISCOUNT.

The King Patent Roller-Bearing Fifth Wheels—Cont d.

DIRECTIONS—These Fifth-Wheels are put on the same as any ordinary flat Fifth-Wheel (bolt countersunk), and in order to have them work properly the following instructions must be complied with: 1. Set it to true center. 2. Have the bearings the same on the rollers and king-bolt plates.

N. B.—When ordering, always state the Name, the Style, and the Diameter.

The King Patent Roller-Bearing Fifth-Wheel, is the handsomest wheel on the market. It is made of steel and will last for years. It consists of a series of rollers placed between two flat circles. The rollers revolve on steel spindles, and these spindles are riveted to the outer and inner circular frames and these frames lap the upper and lower circles and act as guides, keeping the gear in place and preventing the racking of the wagon. Inasmuch as the rollers are longer than the bearing plates are wide, they will not groove the plates. This Wheel requires no oil or grease. It acts as a chain upon the king-bolt; if the bolt breaks, the wheel will hold the gear in place, thereby preventing accident. The wear and tear of the vehicle and harness, and strain upon the horse, are greatly reduced by the use of this wheel. The cost of this wheel is about 25 per cent. less than other wheels.

Nelson's Patent Fifth Wheels—★

With Rocker Plates.



No. 1	2	3	4	5	6	7	8
Dia. 24	26	28	30	32	34	36	32 in.
\$15.00	15.00	17.50	20.00	20.00	22.50	22.50	21.00 each.

(Carrying Capacity, lbs.)

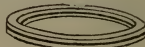
2000 to 2500	2500 to 3500	3500 to 5500	5500 to 7000	5500 to 7000	6000 to 8000	6000 to 8000	8000 to 16000
--------------	--------------	--------------	--------------	--------------	--------------	--------------	---------------

Fifth Wheels, Platform Circles—★

Regular sizes.

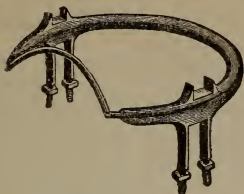
Plain Flat.....6¾c. per lb.

We carry all the regular sizes in stock. Can furnish others quickly.



ALL PRICES SUBJECT TO DISCOUNT.

Fifth Wheels—★



No. 2, Derby.
With Bar.



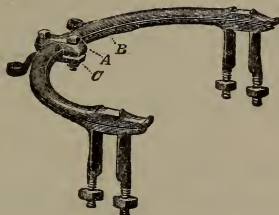
No. 9, Derby.
Full Bottom.



No. 10½, Derby.
Ohio Bottom.



No. 12, Brewster.
Slot for the Lugs.



Storm's.

Prices per Dozen.

	9-16	5/8	11-16	3/4	7/8	1	1 1/8 in.
No. 2, Derby	\$8.00	8.00	....	9.00	14.00	22.00	28.00
" 9, "	7.50	7.50	....	8.50	13.00	21.00	27.00
" 10½, "	5.50	5.50	5.50	6.50	10.50	17.50	23.00
" 12, Brewster	10.00	10.00	10.00	12.00	21.00	.....	.....

Storm's Fifth Wheels—

No. 2, Storm's	5/8x10 in	.....	\$18.50 per doz.
" 3, "	11-16x12 in	.....	18.50 "
" 4, "	13-16x12 in	.....	19.70 "

ALL PRICES SUBJECT TO DISCOUNT.

Head Block Plates—★



No. 106. For Single Reach.

For 1¼ in. spring, 10 or 12 in. circle, ½ or 9-16 in. king bolt. Per dozen.....	\$5.00
For 1⅜ in. spring, 12 or 14 in. circle, 9-16 or ⅝ in. king bolt. Per dozen.....	\$5.50
For 1½ in. spring, 12 or 14 in. circle, 9-16 or ⅝ in. king bolt. Per dozen.....	\$6.00



No. 108. For Double Reach.

For 1¼ in. spring, 10 or 12 in. circle, ½ or 9-16 in. king bolt. Per dozen.....	\$5.00
For 1⅜ in. spring, 12 or 14 in. circle, 9-16 or ⅝ in. king bolt. Per dozen.....	\$5.50
For 1½ in. spring, 12 or 14 in. circle, 9-16 or ⅝ in. king bolt. Per dozen.....	\$6.00

Head Block Plates—★



Socket Pattern.

No. 98. For Double Drop Reaches.

Spring.	Circle.	Reach.	King Bolt.	Per doz.
1¼ in.	10 or 12 in.	¾ in.	½ or 9-16 in.	\$14.40
1¼ in.	12 in.	⅞ in.	½ or 9-16 in.	14.40
1⅜ in.	12 or 14 in.	⅞ in.	9-16 or ⅝ in.	18.00

1⅜ in. plates are also used for 1½ in. springs.

Pole Sockets, Rubber lined—



	Per set.
No. 1. Inside measure of rubber 2⅝x2¼. Width of iron 1¼ in.	\$5.50
No. 2. Inside measure of rubber 2⅞x2⅜. Width of iron 1⅜ in.	5.50

A set consists of one front and one back socket with rubbers and pole pin.

Coach Pole Holders—★

Square, inside measure 2¾x2⅜.....\$1.50 each.

Same as illustration of Pole Socket above.

ALL PRICES SUBJECT TO DISCOUNT.

Socket Coach King Bolt Plates—★

Per set.

No. 2 circle pattern, with milled bolt 7x9-16 in.....	\$5.00
No. 2 circle pattern, without milled bolt 7x9-16 in.....	4.50
No. 2 straight pattern, with milled bolt 7x9-16 in.....	5.00
No. 2 straight pattern, without milled bolt 7x9-16 in.....	4.50

**Clip King Bolts.**

Flanged, collar pattern—

Finished.

No.	Diam. under collar.	Length from collar.	Length clip.	Thread end.	Per dozen.
1,	½ in.	4 in.	4 in.	5-16 in.	\$2.50
2,	9-16 in	4 "	4½ "	5-16 "	2.50
3,	5/8 "	4½ "	5 "	3/8 in.	3.20
4,	¾ "	4½ "	5¾ "	7-16 in.	5.00



Finished, flanged, without collar.

No.	Diam. at clip.	Length from clip.	Length clip.	Thread end.	Per dozen.
1,	½ in.	4¾ in.	4 in.	5-16 in.	\$2.50
2,	9-16 "	4⅞ "	4⅞ "	5-16 "	2.50
3,	5/8 "	5½ "	5 "	3/8 "	3.20

**Clip King Bolt Yokes—**

Plain, collar pattern, 3/8 in. bolt, per dozen.\$1.95

Clip King Bolt Yokes—★

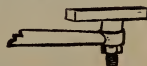
Finished and drilled.

Bolts 3/8 in. Drilled 5-16 in. holes for 7/8 to 1¼ in. axles.....\$2.00 per dozen.

**Clip King Bolt Yokes with Brace End—**

Plain yoke, light, all sizes up to 1¼ in. axles, per dozen.....\$2.70

Plain yoke, heavy, 1½ to 1½ inch axles, per dozen..... 3.15



ALL PRICES SUBJECT TO DISCOUNT.

Clip King Bolt Braces with Yokes,

Finished Braces—★



No. 130 with plain clip yoke.

For 10 or 12 in. Brewster or Derby wheels, light...\$3.60 per dozen.
 " 12 " 14 in. Brewster wheels, heavy 4.60 " "

The above have plain, not drilled yokes.

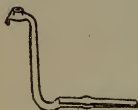
In ordering state for what diameter circle and whether high or heavy.

Body Loop Ends—

Single Lipped, No. 0, $\frac{1}{4}$ in. bolt...\$1.10 per doz.

" " " 1, 5-16 in. " .. 1.10 "

" " " 2, $\frac{3}{8}$ in. " .. 1.35 "



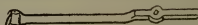
Finished Body Loops, Bent—★

Cincinnati pattern.

$5\frac{3}{4}$, 6, $6\frac{1}{4}$, $6\frac{1}{2}$, $6\frac{3}{4}$, 7 in. drop...45c. set of four.

Herbrand Finished Body Loops,

Not Bent—★



No. 5. 8 in. oval part, 6 in. flat part, $\frac{3}{8}$ in. wide...23c. per pair.

" 7. 9 in. " 6 " $\frac{3}{8}$ " ...24c. "

" 9. 10 in. " 6 " $\frac{3}{8}$ " ...24c. "

" 11. 11 in. " 6 " 1 " ...27c. "

" 18. 10 in. " 6 " 1 " ...26c. "

" 19. $11\frac{3}{4}$ in. " 12 " $1\frac{1}{4}$ " ...51c. "

" 20. $13\frac{1}{4}$ in. " 12 " $1\frac{1}{4}$ " ...52c. "

ALL PRICES SUBJECT TO DISCOUNT.

Bailey Body Hangers—★

Rolled Steel.

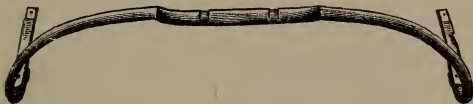
Buggy size
to clip on spring.

No. 1005, C, D, E, F, Per pair.
 20, 21, 22, 23 in. wide, outside to outside\$1.20
 Holes in pad $3\frac{1}{2}$ in., center to center. Drop of regular stock
 sizes 4 in. Holes in flat part 11-32 in. Other widths and drops
 to order.

Seward's Bailey Body Hangers—★

Forged in one piece from Norway iron.

No. 1. Buggy size, 17 to 24 in wide.....\$1.25 per pair.
 " 1. Buggy size, wider than 24 in..... 1.35 " "
 Made from 17 to 25 in. wide outside to outside and from 2 to 5 in.
 drop, Holes in pad, $3\frac{1}{2}$ in. center to center or plain.

Standard Body Hangers—★

To Clip on Spring. Forged solid.

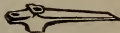
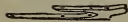
With clips.....	$1\frac{1}{4}$	$1\frac{1}{2}$ inch.
Without clips.....	\$1.25	\$1.60 per pair.
	1.20	1.55

Two pieces in a set.

In ordering give width outside to outside and drop required.

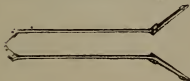
Reach Ends—★

No. 22, for $\frac{3}{4}$ in. double reaches.....24c. per pair.
 " 22, for $\frac{7}{8}$ in. " "28c.

**Reach Sockets—★**

Unfinished Bent Ends for double reaches.

$\frac{3}{4}$ in. wide, for $\frac{7}{8}$, 1 and $1\frac{1}{4}$ in. axles.....\$6.50 per doz. pair.
 $\frac{7}{8}$ " " " 1, $1\frac{1}{8}$ and $1\frac{1}{4}$ in. axles..... 7.50 "

Finished Stay Braces—★

For double reaches.

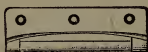
Rolled Steel.

No. 2025 B, $\frac{3}{8}$ in. round, 24 in. between centers of inside holes, Per pair.
 " 2025 D, 7-16 in. " 24 " " " " 25c

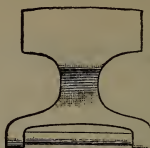
We carry above sizes in stock.
 For special orders, for each additional 3 in. in length or frac-
 tion thereof, add 3 cents to above list prices.

ALL PRICES SUBJECT TO DISCOUNT.

National Roller Chafe Irons, Hard Steel Rolls—★



No. 6.



No. 15.

Per doz.

- No. 1, For cut-under carriage with $1\frac{1}{8}$ in. beveled reach \$4.25
 No. 2, For cut-under carriage with $1\frac{1}{4}$ in. beveled reach 4.25

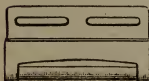
Per doz. pairs.

- No. 6, For two-passenger side-bar jobs 4.25
 No. 7, For extra light end spring buggy 4.25
 No. 8, For heavy two-passenger side-bar jobs 5.25
 No. 10, For Phaetons and Stanhopes 5.25
 No. 11, For two-passenger end spring jobs, without full length body loops 5.25
 No. 12, For Cornings and Traps, without full length body loops 5.25
 No. 15, For Goddard buggies 6.25
 No. 17, For any side spring job 6.25
 No. 20, For end-spring Surrey or Trap without full length body loop 5.75
 No. 23, For heavy one-horse express or delivery 6.25
 No. 24, For heavy farm, coal and lumber wagons... 8.75
 No. 36, For Thomas' patent front jump 5.25

Roller Wear Irons, Malleable Iron—★

Per dozen pairs.

- No. 1681, For end spring vehicles with full length body loops, 5 in. long, A. $2\frac{1}{2}$ in., B. $3\frac{1}{8}$ in. wide.. 3.60
 No. 1826, For end spring vehicles with short body loops, 5 in. long, $2\frac{3}{4}$ in. wide 4.00
 No. 1683, For side-bars, 5 in. long, $1\frac{3}{4}$ in. wide... 3.00
 No. 1684, For Concord side spring jobs, 5 in. long ... 4.00
 No. 1685, For Phaetons, Stanhopes, etc., 5 in. long, 3 in. centers of holes, A. $4\frac{1}{2}$ in. wide, B. $5\frac{1}{2}$ in. wide, 4.20
 No. 1686, For cut-under Surreys, 5 in. long, $2\frac{3}{4}$ in. wide out to out \$3.80 per dozen.



S. D. K. Roller Chafe Irons—

Made all steel, light
 and very strong .. \$3.60 per doz. pairs.

ALL PRICES SUBJECT TO DISCOUNT.

Seward's Cut E Gear Irons—

Nos. 2, 3 and $3\frac{1}{2}$ Sets. With No. 14 Back Reach Sock-
ets. \$4.75 per set.

With No. 17 Back Reach Sock-
ets. \$4.40 per set.
No. 4. Set.

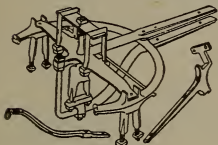
With No. 14 Back Reach Sock-
ets. \$5.40 per set.
With No. 17 Back Reach Sockets. \$5.10 per set.

Ideal Gear Irons, Malleable Iron—

No.	Spring.	Reach.	Per set.
801.	$1\frac{1}{4}$ in.	Single	\$1.15
	$1\frac{1}{4}$ "	Double.....	1.25
803.	$1\frac{1}{2}$ "	Single.....	1.68
	$1\frac{1}{2}$ "	Double	1.85



Ideal.



Surrey.

Surrey Gear Irons—

For Two-seat cut-under Sur-
reys \$4.00 per set.

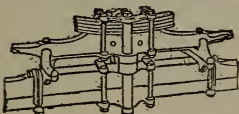
Hanson & Mack's Gear Irons—

Best malleable iron. For
short turn gears.

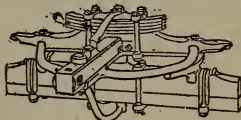
No. 924A. 14 in. Circle.
 $1\frac{1}{2}$ in. Head Block. $1\frac{1}{2}$ in.
Reach Irons. $\frac{3}{8}$ in. King
Bolt. Per set.....\$1.35

No. 924B. Same as A,
with $1\frac{1}{8}$ in. Reach Irons.
Per set.....\$1.55

Chicago Spring Wagon Gear Irons—



Front.



Rear.

Best malleable Iron. Per set.
For $1\frac{1}{8}$ in. axles, $1\frac{1}{4}$, $1\frac{3}{8}$ and $1\frac{1}{2}$ in. springs. 14 in.
diameter \$1.35
" $1\frac{1}{4}$ " " $1\frac{1}{2}$ springs. 14 in. diameter..... 1.35

No. 947C. Gear Irons—



No. 947.

Best malleable iron.
No. 947C. 10 in. circle,
 $1\frac{1}{4}$ in. spring, double
reach, rear king bolt, anti-
rattler.....\$1.00 per set.

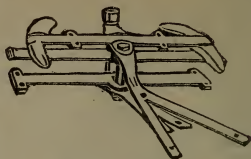
For two-passenger ve-
hicles.

ALL PRICES SUBJECT TO DISCOUNT.

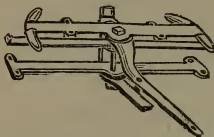
Herbrand Gear Irons—★



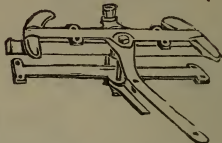
Nos. 51½, 5a.



Nos. 50½, 50a.



Nos. 6½, 6a.



Nos. 16½, 16a.

No.	6½,	for single reach, one seat vehicles	\$1.42	per set.
"	16½,	" " two "	1.67	"
"	5½,	double reach, one "	1.42	"
"	50½,	" " two "	1.67	"

These numbers have Wrought Top Plate, Back Coupling, Reach Iron, King Bolt. Malleable Bottom Plate, Axle Plate.

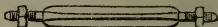
No. 6a,	for single reach, one seat vehicles.....	\$1.24	per set.
" 16a,"	" " two "	1.49	" "
" 50a,"	" double reach, one "	1.24	" "
" 50a,"	" " two seat cut-under	1.49	" "

These numbers have Wrought Top Plate, Reach Iron, King Bolt. Malleable Bottom Plate, Axle Plate, Back Coupling.

No. 971, for single reach,	8½ in. circle,	one-seat.....	\$0.90	per set.
" 976, " " "	9 " "	two-seat.....	1.05	"
" 970, " double	8½ " "	one-seat.....	.90	"
" 975, " " "	9 " "	two-seat.....	1.05	"

These numbers have Malleable Reach Iron Top, Bottom and Axle Plates and Back Couplings, and Wrought King Bolt.

Spring Bar Clips, Brewster—★

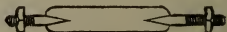


5/8 in. wide. 5-16 in. shank.

Nos.....	0	1	2	3	4	5	6
Flat part.....	4¼	4¾	5¼	5¾	6¾	7	7¾ in.
Norway.....	\$1.00	1.15	1.22	1.30	1.45	1.65	1.85 per doz.
Seward's 776.....	1.00	1.15	1.22	1.30	1.45	1.65	1.85 "

Side Bar Clips.

Brewster—★



Long end 2 in., short end $1\frac{1}{4}$ in., $\frac{7}{8}$ in. wide, 5-16 in. shank.

Nos.	0	1	2	3	4
Flat part, 2½		3	3½	4	4½ in.
Price	90c	90c	90c	\$1 00	1 10 per doz.

ALL PRICES SUBJECT TO DISCOUNT.

Seward's Axle Clips—*

For Concord Wagons.

New Number.	Size of Shank 3-8.	Price per dozen.
No. 3½	Flat Part 3½ inches long, 1¼ wide	\$1.00
No. 4	" 4 " " " "	1.00
No. 4½	" 4½ " " " "	1.15
No. 5	" 5 " " " "	1.30
No. 5½	" 5½ " " " "	1.45
No. 6	" 6 " " " "	1.60
No. 6½	" 6½ " " " "	1.75
No. 7¼	" 7¼ " " " "	2.15
No. 8	" 8 " " " "	2.35

Seward's Axle Clips—*

For Express and Truck Wagons.

New Number.	Size of Shank 7-16 in. and 1½ in. long.	Price per dozen.
No. 4½	Flat Part 4½ inches long, 1⅝ wide	\$1.75
No. 5	" 5 " " " "	1.75
No. 5½	" 5½ " " " "	1.92
No. 6	" 6 " " " "	2.10
No. 6½	" 6½ " " " "	2.22
No. 7	" 7 " " " "	2.35
No. 7½	" 7½ " " " "	2.47
No. 8	" 8 " " " "	2.60
No. 9	" 9 " " " "	2.85
No. 10	" 10 " " " "	3.25
No. 11	" 11 " " " "	3.60

Eagle Axle Clips—*

5-16 in. shank, ⅞ in. wide. ¾ in. shank, 1¼ in. wide.

Round Ends. Price per dozen.

Nos.	00	0	1	2	3	4	5	6	7
5-16 shank	70c	70	70	75	80	95	\$1 10	1 25	....
Flat part	2½	2¾	3¼	3¾	4¼	4¾	5¼	6 in.	....
¾ shank	\$1 00	1 00	1 15	1 30	1 45	1 60	1 75	2 00	2 25
Flat part	3½	4	4½	5	5½	6	6½	7¼	8 in

Seward's '76 Pattern Axle Clips, for Buggies—*

New Number.	Size of Shank, 5-16.	Width ⅞ in.	Price per doz.
No. 2¼	Flat Part 2¼ in. long,		\$.80
" 2½	" 2½ " "		.80
" 2¾	" 2¾ " "		.80
" 3	" 3 " "		.80
" 3¼	" 3¼ " "		.80
" 3½	" 3½ " "		.80
" 3¾	" 3¾ " "		.80
" 4	" 4 " "		.85
" 4¼	" 4¼ " "		.85
" 4½	" 4½ " "		1.00
" 4¾	" 4¾ " "		1.00
" 5	" 5 " "		1.15
" 5¼	" 5¼ " "		1.15
" 6	" 6 " "		1.35

ALL PRICES SUBJECT TO DISCOUNT.

**Smith's Point Center Axle
Clips—★**

Shanks on all sizes 5-16 inch.

No. 00, Flat part 2 in. long.....	\$0.80 per doz.
No. 00½, " 2¼ "	.80 "
No. 0, " 2½ "	.80 "
No. 0½, " 2¾ "	.80 "
No. 1, " 3 "	.80 "
No. 1½, " 3¼ "	.80 "
No. 2, " 3½ "	.80 "
No. 2½, " 3¾ "	.80 "
No. 3, " 4 "	.85 "
No. 3½, " 4¼ "	.85 "
No. 4, " 4½ "	1.00 "
No. 4½, " 4¾ "	1.00 "
No. 5, " 5 "	1.15 "
No. 5½, " 5½ "	1.20 "
No. 6, " 6 "	1.35 "

Be sure to state whether for flat part or number.

Smith's Point Center Clips—★

For sleigh and light work. Shanks on all sizes ¼ inch.

No. 00, Flat part 2 in. long.....	\$0.80 per doz.
No. 00½, " 2¼ "	.80 "
No. 0, " 2½ "	.80 "
No. 0½, " 2¾ "	.80 "
No. 1, " 3 "	.80 "
No. 1½, " 3¼ "	.80 "
No. 2, " 3½ "	.80 "

Be sure to state whether for flat part or number.

Smith's Point Center Clips—★

For Sleighs and light work. Shanks on all sizes 3-16 in.

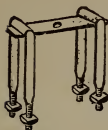
No. 00¼, Flat part, 2½ in. long.....	\$0.80 per doz.
No. 0, " 2½ "	.80 "
No. 0½, " 2¾ "	.80 "
No. 1, " 3 "	.80 "

Be sure to state whether for flat part or number.

Seward's Clips for**Bradley Shaft Couplings—★**

No. 3, Flat part 3 in. long, ¾ in. shank.....	\$1.00 per doz.
No. 3¼, " 3¼ " ¾ "	1.00 "
No. 3½, " 3½ " ¾ "	1.00 "

ALL PRICES SUBJECT TO DISCOUNT.

Saddle Clips—Half round pattern.

For $1\frac{1}{4}$ in. springs.
 Nos. 000 $1\frac{1}{2}$ 00 0 $0\frac{1}{2}$ 1 2 3 4
 Flat Part. $1\frac{1}{4}$ 2 $2\frac{1}{4}$ $2\frac{1}{2}$ $2\frac{3}{4}$ 3 $3\frac{1}{4}$ $3\frac{1}{2}$ in.
 Price, all sizes, \$1.25 per dozen sets.

For $1\frac{3}{8}$ in. springs.
 Nos. 5 $5\frac{1}{2}$ $5\frac{3}{4}$ 6 $6\frac{1}{2}$ $6\frac{3}{4}$
 Flat part. $2\frac{1}{4}$ $2\frac{1}{2}$ $2\frac{3}{4}$ 3 $3\frac{1}{4}$ $3\frac{1}{2}$
 Price, all sizes, \$1.35 per dozen sets.

For $1\frac{1}{2}$ in. springs.
 Nos. 7 $7\frac{1}{2}$ $7\frac{3}{4}$ 8 $8\frac{1}{2}$ 9 $9\frac{1}{2}$ $9\frac{3}{4}$ 10 11
 Flat part. $2\frac{1}{4}$ $2\frac{1}{2}$ $2\frac{3}{4}$ 3 $3\frac{1}{4}$ $3\frac{1}{2}$ $3\frac{3}{4}$ 4 $4\frac{1}{4}$ $4\frac{1}{2}$ in.
 Price, all sizes, \$1.45 per dozen sets.
 A set consists of two clips and one plate.

Seward's One-Piece Saddle Clips—★

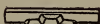
For $1\frac{1}{4}$ in. Springs.... Nos. $1\frac{3}{4}$, 2, $2\frac{1}{4}$, $2\frac{1}{2}$, $2\frac{3}{4}$, 3, $3\frac{1}{4}$, $3\frac{1}{2}$
 " $1\frac{3}{8}$, $1\frac{1}{2}$ in. " .. Nos. 2, $2\frac{1}{4}$, $2\frac{1}{2}$, $2\frac{3}{4}$, 3, $3\frac{1}{4}$, $3\frac{1}{2}$, $3\frac{3}{4}$, 4
 Price, for all sizes..... \$6.00 per doz.
 The numbers express the lengths of flat part.

**Coach Axle Clips—★**

Smith's Regular and Anvil Patterns.



Regular.				Regular.			Anvil.
Nos. 00	0	1	2	3	4	5	
For $1\frac{3}{4}$	$1\frac{5}{8}$	$1\frac{1}{2}$	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{8}$	1 in. axles.	
" $2\frac{1}{2}$, 3	2, $2\frac{1}{4}$	$1\frac{3}{4}$, 2	$1\frac{1}{2}$, $1\frac{1}{4}$	$1\frac{1}{4}$, $1\frac{3}{8}$, $1\frac{1}{2}$	$1\frac{1}{4}$, $1\frac{1}{8}$	$1\frac{1}{4}$ in. springs.	
\$10.00	7.00	5.00	4.00	3.50	3.00	2.75 set of 4.	
Anvil	\$5.00	4.00	3.50	3.00	2.75	"	

Coach Clips—★

American.		English.		French.	
No. 1, for 2 in. springs, either style	.....	\$5.00	per pair.		
" 2, " $1\frac{3}{4}$ in.	"	"	4.00	"	
" 3, " $1\frac{1}{2}$ in.	"	"	3.25	"	
" 4, " $1\frac{1}{4}$ in.	"	"	2.75	"	

Seward's Cut I, Coach Spring Clips—★

5-16 in. shank, $1\frac{1}{4}$ in. spring \$1.75 per doz.
 $\frac{3}{8}$ " " $1\frac{1}{4}$ and $1\frac{3}{8}$ in. spring 2.00 "
 7-16 " " $1\frac{1}{2}$, $1\frac{3}{4}$ and $1\frac{3}{8}$ " 2.25 "

**Coach Axle Stay Clips, Seward's Cut I—★**

1 in. axle, flat 15-16, 5-16 shank..... \$1.50 per doz.
 $1\frac{1}{8}$ " " 1 & 1-16, 11-32 " 1.50 "

ALL PRICES SUBJECT TO DISCOUNT.

Half Round Short Spring Clips—

5-16 in., 1 and $1\frac{1}{4}$ in. springs or axles55c. per doz.
 $\frac{3}{8}$ " $1\frac{1}{8}$ and $1\frac{1}{2}$ in. springs or axles80c. "

Axle Clip Yokes, Wrought—

Plain, $\frac{3}{8}$ to $1\frac{1}{2}$ in. between holes, 5-16 in. holes.....7c. per lb
" 1 to 2 " " " $\frac{3}{8}$ " " 7c. "
" $1\frac{1}{4}$ to 2 " " " 7-16 " "7c. "
Clip Yokes for Swaged Axles.....7 $\frac{1}{2}$ c. "

Seward's Axle Clip Yokes—

Forged plain, with drilled holes.



$\frac{3}{4}$ to $1\frac{1}{2}$ in. between holes, for $\frac{1}{4}$ in clips.....20c. per doz.
 $\frac{3}{4}$ to $1\frac{1}{2}$ " " " " 5-16 " "14 $\frac{1}{2}$ c. per lb.
1 to 2 " " " " $\frac{3}{8}$ " "14 $\frac{1}{2}$ c. "

Felloe Plates, Philadelphia pattern—

Steel, for $\frac{3}{4}$ to 2 in. felloes.....7 $\frac{1}{2}$ c. per lb.



Coach Felloe Plates, Malleable—

A set consists of 8 plates.

For felloes.. $\frac{3}{4}$ $\frac{7}{8}$ 1 $1\frac{1}{8}$ $1\frac{1}{4}$ $1\frac{1}{2}$ $1\frac{3}{4}$ $1\frac{1}{2}$ $1\frac{3}{4}$ in.
Price, 12c. per lb.



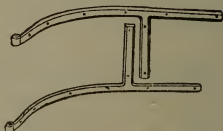
Shaft Irons, Rolled Steel—★

Finished, in halves and ready to bolt on shafts.

Bevel Edges.

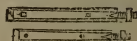
Per pair.

No. 2235 B, $1\frac{1}{4}$ in. wide, $\frac{1}{4}$ in.
thick, 1 in. eye, $\frac{3}{8}$ in. hole....56c,
No. 2235 C, $1\frac{1}{8}$ in. wide, 5-16 in.
thick, 1 in. eye, 7-16 in. hole ..56c.
No. 2235 D, $1\frac{1}{4}$ in. wide, 5-16 in.
thick, 1 in. eye, 7-16 in. hole ..60.



Cart Heel Irons—

Wrought Iron.....\$0.12 per set of 4 pieces.
2 pieces each to a set.



ALL PRICES SUBJECT TO DISCOUNT.

Bradley Shaft Couplings—★

		Per pair
No. 8.	Buggy size, for shafts or pole.....	\$1.00
" 8.	" " Couplings only, without ends.....	.70
" 8.	" " Shaft or pole ends only	.30
" 9.	Surrey size, for shafts or pole.....	1.25
" 9.	" " Couplings only, without ends.....	.85
" 9.	" " Shaft or pole ends only.....	.40
No. 8 or 9 Extra Leather Packings with retainers, 50c. per doz. pairs.		
" 10.	Couplings for 1¼ to 1½ in. axles, with either shaft or pole ends.....	1.75
" 10.	Shaft or Pole Ends, with leathers and retainers.....	.55
" 10.	Couplings only, without ends.....	1.20
" 10.	Leathers and Retainers	.10
" 11.	Couplings for 1½ to 2¼ in. axles, with either shaft or pole ends.....	2.25
" 11.	Shaft or Pole Ends, with leathers and retainers.....	.75
" 11.	Couplings only, without ends.....	1.50
" 11.	Leathers and Retainers.....	.10

Shaft Couplings, Finished—

Price per dozen pairs.

	Width	Bolt.	Length	Shank.	With	
	Eye. ¾ in.				Eyes.	Eyes.
	1 " light,	5-16 in.	2½ in.	5-16 in.	\$3.80	\$2.35
	1 " heavy,	¾ "	3½ "	5-16 "	3.80	2.35
	1½ "	7-16 "	3½ "	5-16 "	4.00	2.50
	1¾ "	7-16 "	3½ "	¾ "	5.40	3.60
	1¾ "	7-16 "	4¾ "	¾ "	7.00	4.70
	1¾ "	7-16 "	4¾ "	¾ "	9.50	6.00
	1¾ "	7-16 "	5 "	¾ "	10.80	7.20
	1¾ "	½ "	6¾ "	1½ "	20.00	.....

The measurement is of the bent clip inside from the round shanks.



Shaft Couplings,

Unfinished—★

Straight ears. Interchangeable parts.



¾ in. light,	5-16 in. bolt.....	\$11.25	per doz. pairs.
1 in. heavy,	¾ "	11.25	" "
1 in. "	7-16 "	11.75	" "
1½ in. "	7-16 "	12.50	" "
1¾ in. "	7-16 "	14.50	" "
1¾ in. "	7-16 "	16.00	" "
1¾ in. "	½ "	17.00	" "
1¾ in. extra heavy,	¾ in. bolt.....	25.00	" "
1¾ in. "	1½ "	30.00	" "
2 in. "	¾ "	50.00	" "

Pole Couplings, Unfinished—

Same as unfinished Shaft Couplings.

Pole Couplings, Finished—

Same description and prices as finished Shaft Couplings.



ALL PRICES SUBJECT TO DISCOUNT.

Shaft Eyes—

		Light.		Heavy.			
	$\frac{3}{8}$ and 1	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{3}{4}$ inch.
		\$1.45	1.55	1.80	2.25	3.40	5.85 per doz. prs.

Pole Eyes, Reversed—

		Light.		Heavy.			
	$\frac{3}{8}$ and 1	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{3}{4}$ inch.
		\$1.45	1.55	1.80	2.25	3.40	5.85 per doz. prs.

Shaft and Pole Coupling Jacks—★

Stone's.....\$1.50 each

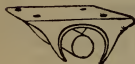


Stone's.

Shaft Holdbacks—

"Sensible"

\$3.50 per doz. pairs.



Shaft Supports—

Hackett's buggy size, 3-16 in. \$1.00 per pair.

Hackett's spring wagon size, $\frac{3}{4}$ in. 1.35 "

Hackett's wagon size, 5-16 & 11-32 in. 2.00 "

Rubber Anti-Rattlers, Shaft and Pole—

	Cut to fit for		$\frac{3}{8}$		1		$1\frac{1}{8}$		$1\frac{1}{4}$ in. couplings.	
			\$0.50		.50		.65		.80 per dozen pairs.	
	In 24 in. strips, plain.....		\$0.48		.60		.72 each.		1.08 "	
	In 24 in. " lined.....		.72		.90		1.08 "			

Dandy Anti-Rattlers—

Price.....\$0.67 per dozen pairs.



Burton's Anti-Rattlers—

No. 1, with bolt holder...\$1.08 per doz. pairs.

No. 2, without bolt holder .67 " "



Ladd's Anti-Rattlers, without Tie-bar—



No. 1, for $\frac{3}{4}$ to 1 in. couplings...\$0.96 per doz. pairs.

No. 2, for $1\frac{1}{8}$ to $1\frac{1}{2}$ in. 1.28 " "

No. 3, for heavy jobs " 1.92 " "

Johnson's Anti-Rattlers—

No. 1, for $\frac{3}{8}$, 1 and $1\frac{1}{8}$ in. axles.\$1.25 per doz. prs.

No. 2, for $1\frac{1}{4}$ and $1\frac{3}{8}$ in. " 1.25 "

Quick Shifters 3.00 "

Standard Quick Shifters—

Regular Model		1	$1\frac{1}{8}$	$1\frac{1}{4}$ in.
		\$0.82	1.00	1.15 per pair.

ALL PRICES SUBJECT TO DISCOUNT.

Singletree Plates—★



Brewster.



Eagle.



Ives.

		Per doz.
Brewster (Smith's)	{ No. 1, $1\frac{1}{2}$ in. wide, 5-16 in. bolt.....	\$3.00
	{ " 2, $1\frac{3}{4}$ " " " $\frac{3}{8}$ " "	2.00
Eagle	{ " 3, $1\frac{5}{8}$ wide, $\frac{1}{2}$ thick & 5-16 in. bolt..	.80
	{ " 4, $1\frac{3}{4}$ " " " $\frac{1}{2}$ " " $\frac{3}{8}$ " " ..	.90
Ives'	{ $1\frac{1}{2}$ in. wide.....	1.10
	{ $1\frac{3}{4}$ " "	1.30
	{ 2 " "	1.70

Premium Singletree Hooks—★

Per doz.
pairs.



$\frac{7}{8}$ and 1 in.....	\$5.00
$1\frac{1}{8}$ in.....	5.75
$1\frac{1}{4}$ ".....	6.50
$1\frac{3}{8}$ ".....	7.50
$1\frac{1}{2}$ ".....	8.50

Grigg's at same prices.



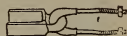
Wrought Singletree Hooks and Clevises—★

For Trucks and Heavy Wagons.

	No. 1.	Diam. of "Hook,	$\frac{5}{8}$ in.	Clevis opening	$1\frac{1}{4}$ in..	Per pair.
	2.	"	$\frac{3}{4}$ in.	"	$1\frac{1}{2}$ in..	\$0.90
				No. 1 for singletrees.	No. 2 for doubletrees.	1.00

Clevises and Draw Bolts—★

A set consists of four pieces.



Forged Steel Clevises.

No.	Width.	Opening.	Diam. at bend.	Per dozen.
No. 1 Light.	$1\frac{1}{4}$ in.	$1\frac{3}{8}$ in.	$\frac{3}{4}$ in.	\$3.12
" 2 Heavy.	$1\frac{1}{2}$ in.	$1\frac{3}{4}$ in.	$\frac{7}{8}$ in.	3.60

Forged Steel Draw Bolts.

No.	Opening cent. to cent.	Diam. at bend.	Thread.	Per doz. pieces.
No. 1. Light.	$1\frac{1}{8}$ in.	$\frac{3}{4}$ in.	5-16 in.....	\$2.16
" 3. Heavy.	$2\frac{1}{8}$ in.	15-16 in.	$\frac{3}{8}$ in.....	2.40

Singletree Bolts—

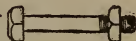
Bent Heads, Square Necks.

5-16x3, $3\frac{1}{2}$, 4 and $4\frac{1}{2}$ in. long....	\$4.00 per 100.
$3\frac{1}{2}$ x3, $3\frac{1}{2}$, 4 and $4\frac{1}{2}$ " "	4.50



Shaft Coupling Bolts—

	5-16 in.	$\frac{3}{4}$ in.	7-16 in.
Milled, all lengths	\$2.50	\$2.70	\$3.00 per 100.



ALL PRICES SUBJECT TO DISCOUNT.

Coach Trace Bolts—*

Regular length of piping $2\frac{1}{4}$ in., square bolt $4\frac{1}{2}$ x7-16 in.



Oval.



Round.



Square.

Oval pattern, hand ragged,	$3\frac{1}{8}$ x $2\frac{3}{4}$ in.	\$1.20 per pair.
" " " "	$4\frac{1}{8}$ x $3\frac{1}{8}$ "	1.55 "
Square " " "	$3\frac{1}{2}$ x $2\frac{1}{2}$ "	1.20 "
Oval " plain,	$3\frac{1}{8}$ x $2\frac{3}{4}$ "	.95 "
Square " " "	$4\frac{1}{8}$ x $3\frac{1}{8}$ "	1.35 "
Square " " "	$3\frac{1}{2}$ x $2\frac{1}{2}$ "	.95 "
Round " " "	$2\frac{1}{4}$ in. diameter	.70 "
" " " "	$2\frac{3}{4}$ " "	.90 "

Bent Head Shaft, Step, Steeple and Cone Head Bolts—*



Shaft.



Step.



Steeple.



Cone.

	3-16 and $\frac{1}{4}$ in.	5-16 in.	
1 in.	\$3.00	.....	per 100
$1\frac{1}{4}$ "	3.10	.....	"
$1\frac{1}{2}$ "	3.20	.....	"
$1\frac{3}{4}$ "	3.30	.....	"
2 "	3.40	\$4.10	"
$2\frac{1}{4}$ "	3.50	4.20	"
$2\frac{1}{2}$ "	3.60	4.40	"
$2\frac{3}{4}$ "	3.70	4.50	"
3 "	3.80	4.70	"

End Gate Fasteners—

Selle's No. 1, $7\frac{1}{2}$ in. body.....\$0.72 per set.

" No. 2, $8\frac{1}{2}$ "78 "

" No. 3, $9\frac{1}{2}$ "86 "

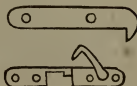
Selle's serves as corner post, brace, hinge and latch.



Seat Fasteners—



No. 4835.



Common Sense,



Dolson's.

Eccentric, No. 4835	\$1.12 per dozen sets.
Common Sense	2.20 " "
Dolson's	2.40 " "

ALL PRICES SUBJECT TO DISCOUNT.



"S. D. K." Neckyoke Centers, Japanned—

Strongest in the world. It will outlast 15 leather centers. It will not rattle or pound on the pole. The pole will not drop if the traces become unhooked or even break. It will not grip the pole tight enough to break the end off, as is done by other grip neck yoke centers. It is put together with half-inch bolts and rivets. It is the neatest, strongest, most durable center made. Weighs 19 ounces.

$1\frac{1}{8}$ and $1\frac{1}{4}$\$3.50 per doz.
 $1\frac{3}{8}$ " $1\frac{1}{2}$ 3.75 "

Acme Neckyoke Centers—



Adjustable center made with a steel band clip for the neckyoke, covered with leather, both fastened to the pole leather part with machine screws.

	Diameter of Clip.	Diameter of Pole Hole	Price per doz.
No. 1.	$1\frac{1}{2}$ in.	$1\frac{1}{8}$ in.	\$3.80
" 2.	$1\frac{5}{8}$ "	$1\frac{1}{4}$ "	3.80
" 3.	$1\frac{3}{4}$ "	$1\frac{3}{8}$ "	3.80
" 4.	$1\frac{7}{8}$ "	$1\frac{1}{2}$ "	3.80
" 5.	2 "	$1\frac{1}{2}$ "	4.20
" 6.	$2\frac{1}{8}$ "	$1\frac{1}{2}$ "	4.20
" 7.	$2\frac{1}{4}$ "	$1\frac{3}{4}$ "	5.80

Standard Neckyoke Centers—

Same Nos. and measurements as the Acme, but do not have the leather covering over the steel clip.

Nos. 1, 2, 3 and 4.....\$3.00 per doz.

" 5 and 6 3.40 "

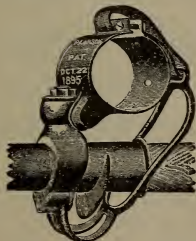
No. 7 5.00 "



Sensible Neckyoke Centers—

All leather. No filing or fitting or worrying to fit iron to wood. Adjusts easily to the yoke. Strong and durable.

Price.....\$9.00 per doz.



Pearson's Neckyoke Centers, Japanned—*

Diameter of Sleeve Clasp—No. 1, $1\frac{1}{2}$ to $1\frac{5}{8}$ in.; No. 2, $1\frac{5}{8}$ to $1\frac{3}{4}$ in.; No. 3, $1\frac{3}{4}$ to $1\frac{7}{8}$ in.; No. 4, $1\frac{7}{8}$ to 2 in.; No. 5, $2\frac{1}{8}$ to $2\frac{1}{4}$ in.

Width of Sleeve Clasp—No. 1, $2\frac{3}{4}$ in.; No. 2, $2\frac{3}{4}$ in.; No. 3, 3 in.; No. 4, 3 in.; No. 5, $3\frac{1}{4}$ in.

Diameter of Pole Hole—No. 1, $1\frac{1}{4}$ in.; No. 2, $1\frac{3}{8}$ in.; No. 3,

$1\frac{1}{2}$ in.; No. 4, $1\frac{5}{8}$ in.; No. 5, $1\frac{3}{4}$ in.

Price per doz., Nos. 1, 2 and 3, \$11.00; No. 4, \$11.50; No. 5, \$12.00.

Double swivel. Absolutely safe. Tongue and Neckyoke cannot become disconnected.

ALL PRICES SUBJECT TO DISCOUNT.

MALLEABLE IRONS—

Prices. For Plain and cored malleables.....	11½c. per lb.
“ Clevises	9c. “
“ Swivels, No. 7700	20c. “
“ “ Nos. 7710 to 7735	12c. “

We illustrate and describe only a few of the articles in this extensive line, such as are almost daily in demand. We will send on application a complete catalogue of carriage and wagon malleable irons.

**Singletree Ferrules, Round Pattern.**

Measuring inside small end.

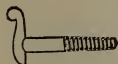
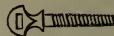
No. 15	C	D	E	F	G	H	J	K	L	M
	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	2 in.
	$\frac{7}{8}$	1	1	$1\frac{1}{8}$	13-16	$1\frac{3}{8}$	$1\frac{1}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$ in. deep.

**Singletree Ferrules, with Loops.**

	F	A	B	C	D	E
No. 165.	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$ in. inside small end.

Singletree Cockeyes.

	A	B	C
No. 35.	5-16	$\frac{3}{8}$	7-16 in. Screw Shank.
	$2\frac{3}{4}$	$3\frac{1}{4}$	$3\frac{5}{8}$ in. long.



	A	B
No. 70.	$\frac{3}{8}$	7-16 in. Screw Shank.
	3	$3\frac{1}{4}$ in. long.

Singletree Hooks, New Pattern.

	A	B	C	D	E
No. 120.	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$ in. inside small end.
	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{5}{8}$	4	4 in. long.

In pairs, right and left.

**Singletree Plates.**

No. 615.	3	11-16 in. long,	5-16 in. bolt r'd hole.
No. 620.	3	11-16 long,	5-16 in. bolt, sq. hole.

**Singletree Couplings.**

Low Pattern.

No. 695.

A	B	C	D	E	F	G	H	J
$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3 in. wide.
$3\frac{3}{4}$	4	$4\frac{1}{2}$	$4\frac{7}{8}$	$5\frac{1}{8}$	$5\frac{3}{8}$	$5\frac{3}{4}$	$6\frac{1}{4}$	$6\frac{1}{2}$ in. long.
5-16	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	7-16	7-16	7-16	7-16	7-16 in. bolt.

High Pattern.

No. 700.	D	C	A	B	E
	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{7}{8}$	$2\frac{1}{4}$	$2\frac{1}{2}$ in. wide.
	4	5	$4\frac{7}{8}$	$5\frac{1}{2}$	$5\frac{3}{4}$ in. long.
	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	7-16	7-16 in. bolt.

ALL PRICES SUBJECT TO DISCOUNT.



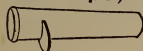
MALLEABLE IRONS, Continued—**Singletree Clevises.**

No. 635.	A	B	C	D
	3	3 $\frac{3}{4}$	4 $\frac{1}{4}$	3 $\frac{1}{2}$ in. inside.
	5-16	5-16	7-16	5-16 in. bolt.
No. 640.	A	B	C	
	3 $\frac{1}{4}$	3 $\frac{1}{2}$	3 $\frac{1}{4}$	in. inside.
	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	in. bolt.

No. 635.



No. 640.

Pole Tips, Beaded End.

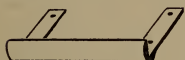
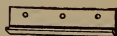
No. 3850.

No. 3845.	A	B	C	D
	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{3}{8}$	1 $\frac{1}{2}$ in. inside end.
	6	6	6	6 in. long.

D	E
1 $\frac{5}{8}$	1 $\frac{3}{4}$ in. inside end.
7	7 in. long.

Wear Irons.

No. 1601. 5 in. long, 1 in. wide square edge.

No. 1680. For lumber wagons.
7 in. long, 4 in. wide, 1 in. flange.**Buggy Steps.**

No. 1903.				D	E
A	B	C		8	11 in. drop.
6 $\frac{1}{2}$	8	9 $\frac{3}{4}$		6	5 in. project'n
6 $\frac{3}{4}$	7 $\frac{1}{2}$	6 $\frac{1}{2}$		4 $\frac{1}{2}$ x4 $\frac{3}{4}$	3 $\frac{1}{2}$ x4 in. pad.
3 $\frac{1}{2}$ x4	3 $\frac{1}{2}$ x4	4x4 $\frac{1}{2}$		1x4	$\frac{7}{8}$ x4 in. T.
$\frac{7}{8}$ x4	$\frac{7}{8}$ x4	$\frac{7}{8}$ x4 $\frac{1}{4}$			

No. 1967. For Three-Spring or Democrat
Wagon. 13 in. drop, 6 in. projection, 3 $\frac{1}{4}$ x3 $\frac{3}{4}$
in. pad.**Corner Irons.**No. 4005. 2 $\frac{3}{8}$ in. long, 1x1 in. wide. 57 degrees
bevel. In pairs right and left.

No. 4380.	A	B	Beveled edges.
	$\frac{5}{8}$	$\frac{3}{4}$ in. wide.	
	3 $\frac{1}{2}$	3 $\frac{1}{2}$ in. long.	

No. 4385.

A	B	C	D	E	F	G	H
5-16	7-16	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	$\frac{3}{4}$ in. wide.
2 $\frac{1}{2}$	1 $\frac{5}{8}$	2 $\frac{1}{4}$	2 $\frac{3}{4}$	2 $\frac{3}{4}$	3 $\frac{1}{2}$	4	2 $\frac{3}{4}$ in. long.

ALL PRICES SUBJECT TO DISCOUNT.

MALLEABLE IRONS, Continued—**Stake Rings.**

No. 5980.	C	D	E	F
	$\frac{7}{8}$	$\frac{7}{8}$	1	1 in. stake.
	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{5}{8}$	2 in. ring.
	5-16	5-16	$\frac{3}{8}$	$\frac{3}{8}$ in. wire.

Express Stake Irons.

No. 5995.	A	B
	$1\frac{1}{2} \times 2\frac{1}{2}$	$1\frac{1}{2} \times 2\frac{3}{4}$ in. stake.
	$2\frac{1}{2}$	$2\frac{3}{4}$ in. deep.
	$\frac{3}{8}$	$\frac{3}{8}$ in. holes.
	7	$7\frac{1}{4}$ in. over all.

Wagon Stake Irons.

No. 6005.	A	B
	$1\frac{1}{2}$	$1\frac{3}{4}$ in. stake.
	$2\frac{1}{2}$	$2\frac{1}{2}$ in. deep.
	$\frac{3}{8}$	$\frac{3}{8}$ in. holes.

No. 6010. F. $1\frac{7}{8} \times 2\frac{1}{8}$ in. pocket, $2\frac{3}{4}$ in. deep.
Two square holes in each side.

Wagon Stake Pockets.

No 6015.		
A	B	C
$1\frac{1}{2} \times 2\frac{1}{2}$	$1\frac{5}{8} \times 2\frac{3}{4}$	$1\frac{3}{4} \times 3$ in. pocket.
$2\frac{1}{4}$	3	$3\frac{7}{8}$ in. deep.
$5\frac{7}{8}$	$6\frac{3}{4}$	$7\frac{1}{4}$ in. long.

Spring Chairs.

No. 6615.



A	B	C	G	H	D	E	J	F
1	$1\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{3}{8}$ in. axle.
$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{3}{4}$ in. spring.
$5\frac{1}{4}$	$5\frac{1}{4}$	$5\frac{3}{8}$	$5\frac{1}{2}$	$5\frac{1}{2}$	$5\frac{5}{8}$	$5\frac{5}{8}$	$5\frac{5}{8}$	6 in. long.

Thumb Nuts, Low Pattern.

No. 5490.

AA	A	B	C	D	E	G
3-16	$\frac{1}{4}$	5-16	$\frac{3}{8}$	7-16	$\frac{1}{2}$	$\frac{5}{8}$ in. holes.
7-16	11-16	$\frac{3}{4}$	$\frac{7}{8}$	15-16	1	$1\frac{1}{4}$ in. high.

These nuts have straight holes, ready to thread.

Size AA, 3-16 in. 2 cts. extra per pound.

**Box Rod Nuts and Washers.**No. 5875. B, $\frac{3}{8}$ in. $3\frac{1}{8}$ in. long.**Box Rod Handle Nuts.**No. 5910. B, $\frac{3}{8}$ in. $4\frac{1}{4}$ in. long.

ALL PRICES SUBJECT TO DISCOUNT.

MALLEABLE IRONS, Continued—



Seat Spring Hooks.

No. 5920. C, $3\frac{1}{2}$ in. long. D, 4 in. long.
1 in. hook at one end, $1\frac{1}{2}$ in. hook at the other end.



Wrenches, Deep Pattern.

No. 7320. A B C D E F G
 $\frac{3}{4}$ $\frac{7}{8}$ 1 $1\frac{1}{8}$ $1\frac{1}{4}$ $1\frac{3}{8}$ $1\frac{1}{2}$ in. axle nuts.
9 9 $9\frac{1}{2}$ 10 10 $10\frac{1}{2}$ 12 in. long.



Evener Clevises.

No. 395. 2 in inside. $4\frac{1}{2}$ in. whole length.
" 430. $2\frac{1}{2}$ in. " 6 in. " "



No. 480, 2 in. inside. $4\frac{1}{2}$ in. whole length.
No. 500, 2 in. inside. $5\frac{1}{4}$ in. whole length.
Round Pattern.



End Clevises.

No. 2820A. $\frac{5}{8}$ in. inside. 4 in. whole length.
" 2820B $\frac{3}{4}$ " " $4\frac{1}{4}$ in. whole length.

Plow Clevises, Wood Beam.

No. 2950. $2\frac{3}{4}$ in. beam. $3\frac{3}{8}$ in. center to center of beam holes.
8 holes in cross clevis.



Plow Clevises, Iron and Steel Beams.

No. 2979. 1 in. beam. $3\frac{1}{4}$ in. center to center of beam holes. 11 holes in cross clevis.

ALL PRICES SUBJECT TO DISCOUNT.

Pages 245 to 284.

DEPARTMENT

Carriage Trimmings

AND MOUNTINGS.

BOW SOCKETS

SHIFTING RAILS,

TOP PROPS,

LEATHER

CLOTH,

RUBBER GOODS,

CURTAIN LIGHTS,

ENAMELED GOODS,

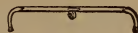
CARPETS,

CURLED HAIR,

MOSS, ETC.

Toe Rails, Rolled Steel—★

Welded Center Foot.



No.	1525	A	B	C	D	E	F	G	H
	18	19	20	21	22	23	24	25	inches.
	\$17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	per 100.
	K	L	M	O	P	R	S	T	
	26	27	28	29	30	31	32	34	inches.
	\$21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	per 100.

Lengths given are from outside to outside.

Shifting Rails—



No. 4.



No. 10.



No. 3.



No. 3. Duplex.

No. 4.	Black.	\$1.00	.....	Japanned.	\$1.20	per set.
" 10.	"	.90	.....	"	.96	"
" 3.	"	.66	.....	"	.70	"
Duplex	"	.66	.....	"	.70	"

Shifting Rails, complete with Lazy Back Irons, fitted and japanned at special prices.



Shifting Rail Clips—

For Adjustable Rails, price10c. per doz

Lazy Back Irons—

	Black.	Japanned.
Arm Rails.....	13c. per pair.	14c. per pair
Back Standards	8c. "	9c. "



Shifting Rail Attachments—★

For repairing lugs on shifting rails, consist of split bolt, collars and nuts.

Complete attachment.....	\$1.00	per doz.
Split bolt only.....	.50	"



Crandal's Pattern Bow Sockets—★

3 bow.....	\$2.15	per set.
4 ".....	2.55	"
Front Tubes.....	.40	each.
Main ".....	.50	"
Back ".....	.40	"



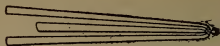
Leather Covered Bow Sockets—★

3 bow, 28 in. long and under.....	\$4.60	per set.
3 " 29 in. ".....	4.70	"
3 " 30 in. ".....	4.80	"
4 " 29 in. " and under.....	5.80	"
4 " 30 in. ".....	6.00	"
4 " extension, 29 in. long and under.....	6.40	"
4 " 30 in. ".....	6.60	"

ALL PRICES SUBJECT TO DISCOUNT.

Tubular Bow Sockets, Steel—★

3 bow.....	\$1.80 per set.	
4 ".....	2.20 "	
4 " extension.....	2.50 "	
Back tubes.....		\$0.40 each.
All others.....		.30 "


Bow Socket Rivets—★.....15½c. per lb.
Goddard Slat Irons and Uprights, Malleable—★

Per doz.
sets.

For 5 bows, to be used with uprights..\$4.50
Uprights, to be used with these slats,
fastens to seat arms..... 4.50


Thomas' Top Props—


Malleable.....14c. per set.
all long.....14½c. "

Thomas' Top Props—★

Wrought.....60c.

Bradley's Top Props—★

Malleable.....45c. "
Wrought.....60c. "

Landau and Victoria Top Props—

½ in. Shanks, Malleable, 4 to set.....\$1.50 per set.
½ " " Wrought, 4 " 2.25 "

Coach Joint Rivets and Washers, 5-16in. shanks★

Nos.....	5	5½	6	6½
For Joints.....	¾	7⁄8	1 and 1⁄8	1¼ in.
Diam. Washer 1½		1½	2½	2¼ in.
" Head... 1¼		1 5-16	1 9-16	1 13-16 in.
Price.....	\$1.00	1.25	1.50	1.50 per doz.


Joint Rivets, Oval or Bevel Head—

Wrought.....\$1.60 per 100
Malleable15 per lb.


Top Prop Nuts and Rivets—★

Per gross.

Japanned, 1½ in. oval top, imitation stitched....\$ 1.90
" 1¼ " " " 2.20
Silver, 1 1-16 in., oval and bevel, solid heads.... 4.50
Gold, 1 1-16 " " solid " 6.00



Rivets same price as nuts.

Nickel, Corrugated Edge, 1½ in. (No. 21A)..... 3.50
Jap'd, " 1½ in. (No. 11A)..... 2.20
Leather Covered, 1½ and 1¼ in. buggy..... 4.00
" 1½ in. carriage..... 4.40
" 2 in. coach..... 14.00



No. 21A.

Rivets same price as nuts.

ALL PRICES SUBJECT TO DISCOUNT.

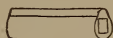
Prop Block Washers, Round or square holes—★

2 in. diam. Edges rounded and polished.

				Per gross.
No. 2, Grain Dash Leather, flat center.				\$3.00
" 1, " " " raised "				4.00
" 2, Soft " " flat "				1.50
" 1, " " " raised "				2.50

**Top Prop Washers—**

Leather, 200 in a box.	\$1.20 per 1000.
Metal.	32c. per lb.

Prop Block—

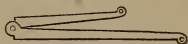
Rubber. 15c. per foot. Rubber, best. 30c. per foot.

**Top Rests—★**

Length, 2 to 2½ in.	15c. per pair.
" 2½ to 3 "	16c. "

Top Braces or Concealed Joints—★

11, 12 and 13 in. long.	\$1.20 per doz. pair.
15 in. long.	1.40 " "
16 in. "	1.60 " "
17 in. "	1.80 " "
18 in. "	2.00 " "
19 in. "	2.85 " "

**Finished Top Joints, Wrought—**

		Black.	Janned.
9-16 in. Half Joint	\$0.76 per set.	\$0.80 per set.	
¾ " " "	.86 " "	.90 " "	

"S" shaped ends, 10c. extra.

Extension Top Joints add 50 per cent.

Sizes carried in stock.

Three-bow, short end 18 in., long end 35½ in.

Four-bow, " 24½ in., " 34 in.

**Back Stays—**

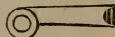
Brass, No. 1, 15-16 in. wide	20c. per pair.
" 2, 1½ " "	30c. " "

Nut Locks, "Pike's"—

For Top Props.	\$1.00 per 100.
------------------------	-----------------

Short Joint Ends, Oval—★

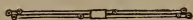
A set consists of eight pieces.



				Per set.
No. 2, for 9-16 in. iron, ¾ in., 11-32 in., or 7-16 in. holes				\$0.45
" 3, " 5/8 " " ¾ " 11-32 " 7-16 "				.50
" 5, " ¾ " " 7-16 in. hole.				.85
" 6, " 7/8 " " 7-16 "				1.10

Long Joint Ends—

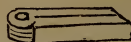
9-16 in. oval	34c. per set.
5/8 " "	38c. " "
¾ " "	46c. " "



ALL PRICES SUBJECT TO DISCOUNT.

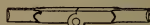
Stump Joints—★

No. 1, Full Milled, Best Norway.



$\frac{1}{2}$ x $\frac{3}{8}$ in.	\$2.10	per doz.
9-16 x $\frac{1}{2}$ "	2.35	"
9-16 x 9-16 "	2.35	"
$\frac{5}{8}$ x $\frac{3}{8}$ "	2.60	"
$\frac{5}{8}$ x $\frac{1}{2}$ "	2.60	"
$\frac{5}{8}$ x $\frac{5}{8}$ "	2.60	"
$\frac{3}{4}$ x $\frac{3}{8}$ "	4.50	"
$\frac{3}{4}$ x $\frac{1}{2}$ "	5.00	"
$\frac{3}{4}$ x $\frac{5}{8}$ "	5.00	"
$\frac{3}{4}$ x $\frac{3}{4}$ "	7.50	"
$\frac{7}{8}$ x $\frac{5}{8}$ "	7.50	"
1 x $\frac{5}{8}$ "	12.00	"
1 $\frac{1}{8}$ x $\frac{5}{8}$ "	14.00	"

No. 3, Milled on two sides, Swaged Ends.



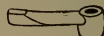
$\frac{1}{2}$ x $\frac{1}{2}$ in.	\$1.55	per doz.
9-16 x $\frac{1}{2}$ "	1.65	"
9-16 x 9-16 "	1.75	"
$\frac{5}{8}$ x $\frac{3}{8}$ "	1.75	"
$\frac{5}{8}$ x 7-16 "	1.75	"
$\frac{5}{8}$ x $\frac{1}{2}$ "	1.87	"
$\frac{5}{8}$ x $\frac{5}{8}$ "	2.00	"
$\frac{3}{4}$ x $\frac{1}{2}$ "	3.38	"
$\frac{3}{4}$ x $\frac{5}{8}$ "	3.87	"
$\frac{7}{8}$ x $\frac{5}{8}$ "	6.50	"

Canopy Top Standard Ends—



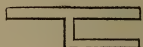
No. 1, $\frac{5}{8}$ in. iron, $\frac{3}{8}$ in. collar, $\frac{1}{2}$ x $1\frac{1}{2}$ in. thread end \$1.20 per doz.
Same as above, but taper ends50 per set.

Canopy Top Socket Ends—



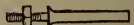
No. 1.
No. 1, Half round shanks, 1x1 in. eye, $\frac{1}{2}$ in. hole... \$1.20 per doz.
Same as above, but taper ends... .50 per set.

Canopy Top Offsets—



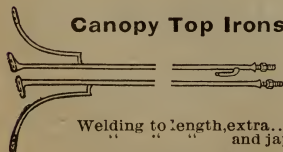
Upright, $\frac{5}{8}$ x 9 in. long, arm
7-16 x 4 in. long.....\$1.30 per doz.

Brace Ends—★



No. 000, $\frac{3}{8}$ in., iron, 11-16 in. collar, 5-16 x $1\frac{1}{2}$ in. end.. \$1.00 per doz.
" 00, 7-16 " " $\frac{3}{4}$ " " $\frac{3}{8}$ x $1\frac{1}{2}$ " " .. 1.00

Canopy Top Irons, Finished in Halves—

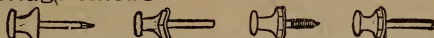


9-16 in., without lamp irons,
.....\$1.50 per set.
 $\frac{5}{8}$ in., with lamp irons,
.....\$1.80 per set.

Welding to length, extra.....25c. per set.
and japanned, extra.....35c. "

ALL PRICES SUBJECT TO DISCOUNT.

Carriage Knobs—★



No. 2.	Double drive.....	\$0.48 per gross
" 80.	Single " barbed	.50 "
" 81.	" " " "	.44 "
" 18.	" screw.....	.80 "
" 27.	Double " "	.84 "
" 55.	Flat base, rivet	.50 "
" 90.	Concave base, rivet	.64 "
" 117.	Split shank.....	.60 "
" 171.	Button Head, rivet.....	.64 "
" 180.	" " screw.....	.80 "
" 198.	Nickel, screw.....	6.00 "
" 144.	Brewster, drive.....	1.00 "
" 126.	" " screw.....	1.10 "
" 135.	" " rivet.....	1.00 "
" 55X.	Tubular, with washers.....	1.40 "

Curtain Fasteners—★

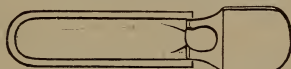


I. X. L.—Nickel Heads.

No. 11.	to screw, single curtain, flat base.....	\$0.70 per doz.
" 12.	to clinch, " "	.60 "
" 13.	to rivet, single curtain, concave base.....	.70 "
" 13 1/2.	" " single " flat base.....	.70 "
" 9.	Patches only.....	80c. per gross.

Brewster—Silver

No. 1.	Single Curtain, to screw on wood	\$ 1.50 per doz.
" 2.	" " " rivet to stays.....	1.50 "
" 3.	Double " " screw on wood	1.75 "



Adjustable—

No. 15.	For Back Stay	\$7.00 per 100.
---------	---------------------	-----------------

Knob Eyelets—★

No. 1.	Harness leather centers.....	\$0.72 per gross.
" 2.	Pebble " "	.64 "
" 8.	" " 1 3/8 in. dia. 1.00	" "



Knob Patch Fasteners—★



No. 3.	no leather, 6 prongs.....	.60c. per gross.
" 5.	with " 4 "	.72c. "
" 6.	" " 4 "	.64c. "
" 7.	no " 4 "	.60c. "
" 4.	Solid back, no leather.....	60c. "

REPAIR PATCHES48c. per doz.

Punches for Knob Patch Fasteners and Eyelets—



4 prongs for patches.....	\$1.00 each
6 " " eyelets.....	1.00 "

ALL PRICES SUBJECT TO DISCOUNT.

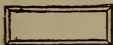
Carpet Hooks—★

No. 1, with Grommets..	\$3.00 per gross.
" 4, without Back Plate.....	1.10 "



No. 1.

Curtain Lights—★



	Per doz.
No. 7. 2 $\frac{3}{8}$ x5 in. plain glass.....	\$1.50
" 12. 1 $\frac{1}{4}$ x5 " " " " " " " " " " " "	.50
" 12. 1 $\frac{1}{4}$ x5 " beveled glass.....	2.50
" 14. 4 $\frac{1}{8}$ x7 " plain glass.....	6.00
" 15. 1 $\frac{1}{8}$ x5 $\frac{3}{8}$ in. " " " " " " " " " "	.70
" 15. 1 $\frac{1}{8}$ x5 $\frac{3}{8}$ " beveled glass.....	3.00
" 17. 2 $\frac{1}{2}$ x5 in. plain glass, upper corners rounded.....	1.50
" 20. 2 $\frac{5}{8}$ x5 $\frac{7}{8}$ in. plain glass.....	2.70
" 20. 2 $\frac{5}{8}$ x5 $\frac{7}{8}$ " beveled glass.....	10.00
" 18. 3x4x7 " plain glass.....	6.00
" 18. 3x4x7 " beveled glass.....	14.00
Goddard, round, 4 $\frac{1}{2}$ in. diam., beveled glass	9.00
" 3 $\frac{3}{8}$ x6, round corners, " " "	12.00

Concealed Hinges, Schwind's—

No. 1, Front Plate, 1 $\frac{3}{4}$ x3 in.....	\$5.60 per set of four.
" 2, " " 2 x3 $\frac{1}{4}$ " " " " " "	6.40 " "
" 3, " " 2 $\frac{1}{8}$ x3 $\frac{3}{4}$ " " " " " "	7.20 " "
" 4, " " 2 $\frac{3}{8}$ x4 " " " " " "	8.00 " "

Single Hinges at slight advance.

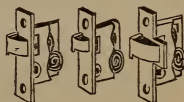


Coach Hinges—★

	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2	2 $\frac{1}{4}$ in. long.
1 in. wide.....	\$0.85	\$0.85	\$0.90	\$0.95	\$1.05	\$1.15 per doz.
1 $\frac{1}{4}$ " " " " " " " "	1.00	1.10	1.20	1.30	1.40	"
1 $\frac{1}{2}$ " " " " " " " "	1.50	1.60	1.70	1.85	"	"
1 $\frac{3}{4}$ " " " " " " " "	2.00	2.00	2.20	"	"	"
	2 $\frac{1}{2}$	2 $\frac{3}{4}$	3	3 $\frac{1}{4}$	3 $\frac{1}{2}$ in. long.	
1 in. wide.....	\$1.25	\$1.35	\$1.45	....	....	per doz.
1 $\frac{1}{4}$ " " " " " " " "	1.50	1.60	1.70	\$1.80	\$1.90	"
1 $\frac{1}{2}$ " " " " " " " "	2.00	2.15	2.35	2.60	2.85	"
1 $\frac{3}{4}$ " " " " " " " "	2.40	2.65	3.00	3.25	3.50	"

Coach Locks—★

No. 0.....	\$7.40 per doz.
" 1.....	8.50 " "
" 2.....	10.00 " "
" 7.....	12.00 " "



Nos. 0 and 1. 2. 7.

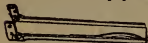
ALL PRICES SUBJECT TO DISCOUNT.

Spring Box Locks—★

5/8 and 3/4 in.....\$3.00 per doz. pair.



Door Flappers—



Landau.....\$4.80 per set of four.
Extra Springs for same, .96 per doz.

Tufting Buttons—



	Japanned.	Cloth.	Clinch.
Japanned,	22 line.....	\$1.20	per great gross.
"	22 ".....	.10	per gross.
"	27 ".....	.15	" "
Cloth covered,	22 " all colors...	.20	" "
"	28 " ".....	.34	" "
Leather covered,	22 " ".....	.40	" "
"	28 " ".....	.56	" "
Japanned Clinch,	22 " 1 1/4 ".....	.26	" "
Cloth covered Clinch	22 " 1 1/4 ".....	.36	" "
"	Tacks, all sizes.....	.20	" "

Whip Cord, drab and other colors.....10c net extra.

Patent Tufts, with eyes..... \$0.90 per gross.

French Tufts, without eyes..... 2.50 "

Tacks—★ 1 lb. papers or bulk.

Swedes' }	2	2 1/2	3	4	6	8	10	12	14	16 oz.
Trimmers' }	\$1.85	1.60	1.45	1.30	1.15	1.00	.95	.90	.85	.80 per lb.
					2 1/2	3	4	6	8	10 oz.
Gimp and Lace.....					\$4.55	4.90	5.50	6.70	8.95	9.30
Japanned Gimp and Lace.....					6.00	6.50	7.10	8.50	9.90	12.00
Per dozen papers (full weight.)										

Finishing and Clout Nails—★

3/8	1/2	5/8	3/4	7/8	1 to 2 in.
\$0.58	.39	.32	.27	.24	.23 per lb.

Chair Nails—★

1/2	5/8	3/4	7/8	1	1 1/4 in.
\$0.46	.38	.33	.30	.28	.26 per lb.

Patent Brads—★

3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4	2 in.
\$1.20	.81	.67	.50	.42	.37	.34	.31	.28	.25 per lb.

Lining Nails, Silver or Japanned, Capped—★

2 1/2 to 12 oz., 75 to paper.....	6c. per paper.
14 to 24 oz., 75 ".....	7c.

Lining Nails, Solid Head, Japanned—★

2 1/2 oz.....	\$0.80 per lb.	8 oz.....	\$0.52 per lb.
3 oz.....	.72 "	10 oz.....	.50 "
4 oz.....	.64 "	12 oz. and larger...	.48 "
6 oz.....	.56 "		

Saddle Nails, Japanned—★

No. 3, 12 oz. to 1 1/2, 75 count.....	13c. per paper.
No. 4, 16 oz. to 1 1/2, 75 ".....	13c.

ALL PRICES SUBJECT TO DISCOUNT.

Leather—

Dash, Grain, hand buffed.....	.c. per foot.
“ “ machine buffed	.c. “
“ No. 1, soft.....	.c. “
“ No. 2, “	.c. “
“ No. 3, shaft.....	.c. “
Top, No. 1, hand buffed, landau	.c. “
“ “ caleche	.c. “
“ No. 1, “ 58 ft. and up.....	.c. “
“ No. 1, “ 54 to 57 ft.....	.c. “
“ Oil dressed, hand buffed.....	.c. “
“ No. 1, machine buffed, 58 ft. and up	.c. “
“ No. 1, “ 54 to 57 ft.....	.c. “
“ deep buffed.....	.c. “
“ Split.....	.c. “
Trimming, oil dressed, hand buffed.....	.c. “
“ black, machine buffed.....	.c. “
“ colored, “	.c. “
“ deep buffed.....	.c. “
“ Split.....	.c. “
Railing and Bow, machine buffed.....	.c. “
“ “ hand buffed.....	.c. “
Harness	.c. per lb.

Fabrikoid—

Artificial Leather, 50 in. Drill all colors.....	\$1.28 per yard.
“ “ 54 in. Duck “ “	1.70 “

Coat Skins—

Green, Blue and Maroon, extra extra quality.....	\$5.00 each.
--	--------------

Rubber Cloth, Drill and Duck—★

	Per yard.		Per yard,
Drill 18 oz. 50 in. wide.....	\$0.75=13 oz. 36 in. wide.....		\$0.60
“ 20 “ 50 “	.80=14 “ 36 “		.63
“ 22 “ 50 “	.85=16 “ 36 “		.69
“ 24 “ 50 “	.90=18 “ 36 “		.74
“ 26 “ 50 “	.95=20 “ 36 “		.79
“ 28 “ 50 “	1.00=22 “ 36 “		.84
“ 30 “ 50 “	1.05=24 “ 36 “		.89
“ 32 “ 50 “	1.10=26 “ 36 “		.94

Duck 36 or 50 in. add 10c. per yard to list.

54 in. Drill add 10c. per yard to list.

Colored Back Drill or Duck add 10c. net per yard.

Whip Cord Back Rubber—

36 and 50 in. wide, prices same as for Colored Back Rubber Drill

Major Cloth— For side curtains.

Green or Blue, 22 oz., Rubber, All-wool Back.

38 in....	\$1.40 per yard.
54 “	1.60 “

ALL PRICES SUBJECT TO DISCOUNT.

Corduroy—

Blue.....	\$1.00 per yard.
Brown.....	1.00 "
Drab	1.00 "
Green.....	1.00 "

Curtain Silk, All colors—

20 in.....	\$1.80 per yard.
4 in.....	2.00 "

Satins, All colors—

54 in. wide	6.00 per yard.
-------------------	----------------

Cushion Webb, All colors—

$\frac{7}{8}$ in. wide.....	20c. per yard.
-----------------------------	----------------

Plushes, Wool and Mohair—

All colors and grades.....	90c. to \$2.00 per yard.
----------------------------	--------------------------

Window Lifter Tassels—

All colors.....	60c. to \$1.00 each.
-----------------	----------------------

Curtain Tassels, All colors—

Large.....	\$2.50 to \$4.00 per doz.
Small.....	1.75 to \$3.00 "

Acorns—

All colors.....	\$1.50 per doz.
-----------------	-----------------

Rubber Matting—

36 in., 3-32 thick.....	\$1.80 per yard.
-------------------------	------------------

Carpet—

Tapestry, 22 in.....	\$0.80 per yard.
" 24 "	84 "
" 27 "	88 "
Wilton X 27 in.....	1.50 "
" XX 27 "	2.05 "
" XXX 27 "	2.45 "
" XXXX 27 "	2.82 "

Oil Carpet—

	Heavy.
22 $\frac{1}{2}$ in. wide ...	27c. per yard.
27 " "	32c. "
21 " "	39c. "

ALL PRICES SUBJECT TO DISCOUNT.

Buckram, 40 in. Wide, 30 yards in a piece—

First quality	23c. per yard.
Medium "	21c. "
Second "	19c. "
Double "	31c. "

Scrims, Regular 29 in. 25 yard pieces.....10c. per yard.**Webbing**—

Narrow, 1½ in.	\$1.65 per gross yards.
Wide, 3 "	1.95 " piece.

Wadding—

3 lb. roll, 12 yards, 20 rolls in bale	\$0.66 per roll.
4 " " 12 " 15 " "	.80 " "
5 " " 12 " 12 " "	.92 " "

Fringes—

Large variety of styles and colors, ranging in price from 20c. to \$1.00 per yard. Write for samples.

**Valances**, Metal—★

Each.

Plain black finish, for 3 ft. 7 in. wide bows and under...38c.

Over 3 ft. 7 in., 2c. per in. extra.

In ordering send paper pattern of outside of naked bows.

Linen Thread—★

Marshall's. Barbour's.

No. 3, Balls.....	....	\$1.20 per lb.
" 12, " .....	....	1.45 " "
" 18, Spools	\$1.10	1.10 " "
" 20, "	1.15	1.15 " "
" 25, "	1.25	1.25 " "
" 30, "	1.40	1.40 " "
" 35, "	1.60	1.60 " "
" 432, ½ lb. balls.....	1.70	1.70 " "
" 532.....	2.00	2.00 " "
" 632.....	2.30	2.30 " "

Clark's Cotton Thread—★

500 yard spools.

A (same size as No. 432).....	\$1.25 per doz.
B (" " 532).....	1.25 " "
C (" " 632).....	1.25 " "

Wound Bobbins—

60 yds. on bobbin.....25c. per doz.

Machine Silk—

Per spool D, E, EE, F, FF, G.....\$1.50 each.

Tufting Twine—

"Best," ½ lb. balls.....	72c. per lb.
No. 1, ½ "	48c. " "

Seaming Cord—

In balls, about 3 lbs.	20c. per lb.
In reels, " 40 "	18c. " "

ALL PRICES SUBJECT TO DISCOUNT.

Lace—

Silk, Broad.....	\$1.00 per yard.
Narrow Seaming and Pasting—	
Plain	15c. "
Fancy.....	16c. "

Lace Frogs—

Silk.....	\$3.00 per dozen.
-----------	-------------------

Guard Strings.....75c. per pair.

Excelsior (in bales, about 100 lbs.)—.....	2c. per lb.
Wood Wool.....	6c. "

Moss (in bales, about 150 lbs.)—

XX.....	9c. per lb
XXX.....	11c. "
XXXX.....	13c. "
XXXX, extra.....	19c. "
Less than full bales, add 2c. per lb.	

Curled Hair, (25-lb. sacks)—

H. & B., Grey.....	22c. per lb.
No. 3. Black.....	24c. "
" 2. Grey.....	34c. "
" 1½. ".....	44c. "
" 1½. ".....	48c. "
" 1. ".....	54c. "
" 1X ".....	66c. "

Sacks, net extra, 25c. each.

Hair Pickers—

Excelsior.....	\$60.00 each.
----------------	---------------

Pillow Springs—Japanned.

4½ in. No. 15 wire, double knot.....	\$1.50 per gross.
Over 4½ in. to 6 in.....	1.70 "
Coppered, extra.....	20 "

**Cushion Springs—Japanned.**

3 in. No. 11½ wire, single knot.....	\$3.25 per gross.
Coppered, extra.....	25 "

Spring Cushion Attachments—

3 springs on strap.....	8c. per strap.
-------------------------	----------------

**Cardboard (Pasteboard)—**

26x38 in., in 50 lb. packages.....	\$2.20 per package.
" per sheet.....	20c. each.

Sea Moss—

Bales about 140 lbs.....	c. per lb.
--------------------------	------------

Tow—

In bales of about 200 lbs.....	c. per b.
--------------------------------	-----------

Trimmers' Paste—

Per keg.....	\$3.00
Per barrel.....	6.00

ALL PRICES SUBJECT TO DISCOUNT.

Burnishing Ink or Edge Blacking—

Hauthaway's.....25c. per quart bottle.

Beeswax—

One ounce cakes75c. per doz

Rein Hooks—★

Japanned.....\$0.40 per doz.

Silver 5.00 "

**Sand Bands, Common Sense—★**

Per doz. sets.



For square axles, $\frac{7}{8}$ to $1\frac{1}{4}$	\$ 9.00
" " " $1\frac{3}{8}$	10.50
" " " $1\frac{1}{2}$ & $1\frac{5}{8}$	12.00
" Thimble Skeins, $2\frac{1}{8}$ to $2\frac{1}{4}$	15.00
" " " $2\frac{1}{2}$ to 3.....	18.00
" " " $3\frac{1}{4}$ to $3\frac{3}{4}$	21.00
" " " 4 in.....	24.00

Beaded Hub Bands, Malleable, all beaded—★

Two plain and two ragged to a set.



$2\frac{1}{8}$ to $2\frac{7}{8}$ in. diam., 2 in. deep.....	\$1.20 per set.
3 in. diameter, 2 " ".....	1.30 "
$3\frac{1}{8}$ " " 2 " ".....	1.40 "
$3\frac{1}{4}$ " " $2\frac{1}{4}$ " ".....	1.50 "
$3\frac{3}{8}$ " " $2\frac{1}{2}$ " ".....	1.60 "
$3\frac{1}{2}$ " " $2\frac{3}{4}$ " ".....	1.70 "
$3\frac{5}{8}$ " " $2\frac{1}{2}$ " ".....	1.80 "
$3\frac{3}{4}$ " " $2\frac{1}{2}$ " ".....	1.90 "
$3\frac{7}{8}$ " " $2\frac{1}{2}$ " ".....	2.00 "
4 " " $2\frac{1}{2}$ " ".....	2.10 "
$4\frac{1}{8}$ " " $2\frac{3}{8}$ " ".....	2.20 "
$4\frac{1}{4}$ " " $2\frac{1}{2}$ " ".....	2.30 "

Rockaway Hub Bands—★

For Ragged Front Bands add 10c. per set net.

Two Hexagon and two Round to set.



Diameter.	$2\frac{1}{4}$ in. deep.	$2\frac{1}{2}$ in. deep.
$2\frac{1}{2}$ & $2\frac{5}{8}$ in.....	\$0.66	 per set.
$2\frac{3}{4}$ to 3 ".....	.70	\$0.80 "
$3\frac{1}{8}$ ".....	.74	.84 "
$3\frac{1}{4}$ ".....	.80	.92 "
$3\frac{3}{8}$ ".....	.86	.98 "
$3\frac{1}{2}$ ".....	.94	1.04 "
$3\frac{5}{8}$ ".....	1.00	1.10 "
$3\frac{3}{4}$ ".....	1.06	1.18 "
$3\frac{7}{8}$ ".....	1.14	1.24 "
4 ".....	1.20	1.30 "
$4\frac{1}{8}$ ".....	1.26	1.36 "
$4\frac{1}{4}$ ".....	1.32	1.44 "
$4\frac{3}{8}$ ".....	1.40	1.50 "
$4\frac{1}{2}$ ".....	1.46	1.56 "

ALL PRICES SUBJECT TO DISCOUNT.

Malleable Hub Bands, Turned—★

1¾ in. deep, 2 to 2½ in. diam.....	26c. per set.
1¾ " " 2¾ to 3 " "	28c. " "
1¾ " " 3½ to 3½ " "	add 4c. for each ⅛ in. above 3 in.
1¾ " " 3½ to 4 " "	6c. " " ⅛ " " 3½ "
2 " " 2 to 2½ " "	36c. per set.
2 " " 2¾ to 3 " "	38c. " "
2 " " 3½ to 3½ " "	add 4c. for each ⅛ in. above 3 in.
2 " " 3½ to 4½ " "	6c. " " ⅛ " " 3½ "

Plated Hub Bands, No. 200—★

1¾ in. deep.....	2 to 2½	2½	2¾	2⅞	3 in. diam.
Silver and Oroide...	\$1.00	1.10	1.20	1.30	1.40 per set.
Gold.....	1.30	1.40	1.50	1.60	1.70 " "

Beaded and Chased. add 10c. to list.

Band Nails—★

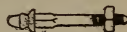
Headless, barbed.....	16c. per lb.
Silver.....	30c. per gross.
Gold.....	50c. " "

Name Plate Nails—★

Silver or Oroide.....	20c. per gross.
Gold.....	30c. " "

Body Loop Bolts, Plated—★

Acorn head, 5-16x2½ in.....\$1.20 per doz.

**Pole Crabs—★**

No. 986.



Nos. 100 & 105.

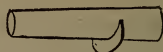


No. 15, with hook.

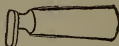
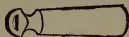
No. 100, 4¾ in. pod..	1¼	1⅜	1½	1⅝	1¾ in. hole.
Close plated.....	\$3.00	\$3.20	\$3.40	\$3.60	\$3.80 each.
Steel finish.....	2.40	2.50	2.60	2.80	3.00 " "
No. 105, 5¾ in. pod..	1½	1⅝	1¾	1⅞	1¾ in. hole.
Close plated ...	\$3.70	3.90	4.10	4.30	4.50 each.
Steel finish.....	2.90	3.10	3.30	3.50	3.70 " "

No. 986, Swivel pattern, steel.....\$7.50 each.
 " 15, Silver, with hook brazed in.....15.00 " "

ALL PRICES SUBJECT TO DISCOUNT.

Plated Pole Tips—★

Plain—No. 15.	1 to 1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{3}{8}$	1 $\frac{1}{2}$ in.
Silver and Oroide ..	\$10.50	\$11.50	\$13.00	\$15.00 per doz.
Gold	13.00	14.00	16.00	18.00 “
Plain—No. 18.				
Silver and Oroide ..	15.00	16.50	18.50	21.00 “
Gold	18.00	19.50	22.00	25.00 “
Round End—No. 150.				
Silver and Oroide...	11.00	12.00	13.50	16.00 “
Gold	13.50	14.50	16.50	19.00 “
Octagon—No. 25.				
Silver and Oroide...	19.00	20.50	22.50	26.00 “
Gold	22.00	23.50	25.50	29.00 “

Plated Singletree Tips—★

	Per doz. pairs.	
Plain, Cockeye and L End—	$\frac{3}{4}$ & $\frac{7}{8}$	1 in.
Silver and Oroide.....	\$ 7.00	\$8.50
Gold	8.50	10.00
Octagon, Cockeye and L End—		
Silver and Oroide.....	11.00	13.00
Gold	13.00	16.00

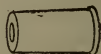
Coach Singletree Tips—★

Per set (4 pieces.)

No. 110.	1 and 1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{3}{8}$	1 $\frac{1}{2}$ in.
Silver and Oroide...	\$3.50	\$4.00	\$5.00	\$6.00
Gold	4.16	4.66	6.00	7.00

Singletree Ends—★

Silver and Oroide.	No. 30, $\frac{3}{8}$ in.....	\$4.00 per doz. pairs.
“ “ “	No. 35, 7-16 in. ..	4.00 “

Singletree Tips, Open Ends—★

	2 in. long.	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{3}{8}$ in.
Silver	\$6.75	7.50	9.00	per doz pairs.
Gold	8.00	9.75	11.50	“

ALL PRICES SUBJECT TO DISCOUNT.

Plated Shaft Tips—★

Flat and Round End—



1½ in. long.....	¾ and ⅞	1	1½ in.
Silver and Oroide.....	\$1.50	\$1.80	\$2.30 per doz. pairs.
Gold	2.00	2.40	3.10 " "

Round End—2 in. long—

Silver and Oroide	2.40	2.90	3.50 "
Gold	3.40	4.00	4.80 "

Round End—2½ in. long—

Silver and Oroide.....	3.70	4.50	6.30 "
Gold	4.70	5.50	7.50 "

Octagon—2½ in. long—

Silver and Oroide.....	8.00	9.00	12.00 "
Gold	9.50	10.50	14.00 "

Express Shaft Tips— Brass.

3 in. long. 1 1½ 1¼ 1⅜ 1½ inch.

\$4.80 5.76 6.72 7.68 8.64 per doz. pr.

**Nickeled Shaft Tips—★**

Nickel over XC Plate.

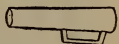


No. 20, ⅞x1¼ in.....	\$0.90 per doz. pairs.
" 25, 1 x 2 in.....	1.20 " "
XC Plate, ⅞x1¼ in.....	.50 " "

Socket Shaft Ends—

Buggy size..... 35c. each.

Surrey "45c. "

**Plated Neckyoke Tips—★**

Plain Beaded—No. 6.	¾ and ⅞	1 in.
Silver and Oroide	\$ 9.00	\$12.00 per doz. pairs.
Gold	12.00	15.00 " "
Octagon—No. 11.		
Silver and Oroide	16.00	20.00 "
Gold	19.00	23.00 "

Humane Spring Tug Posts—★

Per set.

Style B for Landaus, Broughams, etc.....\$10.00

" D " Light Rockaways, Surreys, etc, 10.00

" OO " Buggies, Stanhopes, Goddards,

etc. 10.00

(4 posts to set.)

**Excelsior Trace Attachments—**

Per doz. pair.

Japanned..... \$0.50

Nickel..... 2.10



ALL PRICES SUBJECT TO DISCOUNT.

Lamps, "S.D.K." Square—

	Per pair.
No. 3, glass, $4\frac{1}{4} \times 3\frac{1}{2}$	\$2.70
" 5, " $4\frac{3}{4} \times 3\frac{1}{4}$	2.90

We are prepared to furnish Electric and
Acetylene Lamps.

Send for our Special Lamp Catalogue.

**Dash Lamps—★**

"The Dandy," slips over dash.....	\$3.00 each
Lockwood's, $4\frac{1}{2}$ in. face.....	5.00 "
" $5\frac{1}{2}$ " "	7.00 "

**Leather Dashes, with Leather Moulding—★**

	Without Feet or Bolts.			
	11 in. high.	13 in. high.	15 in. high.	17 in. high.
	Each.	Each.	Each.	Each.
21 in. wide.....	\$1.49	\$1.64	\$1.79	\$1.94
22 "	1.52	1.68	1.83	2.00
23 "	1.56	1.72	1.88	2.06
24 "	1.59	1.76	1.94	2.12
25 "	1.65	1.83	2.01	2.19
26 "	1.70	1.88	2.06	2.25
27 "	1.73	1.93	2.12	2.32
28 "	1.77	1.97	2.16	2.37
29 "	1.83	2.03	2.21	2.43
30 "	1.88	2.08	2.27	2.47
31 "	1.92	2.13	2.33	2.55
32 "	1.95	2.17	2.37	2.60
33 "	1.98	2.21	2.43	2.68
34 "	2.03	2.26	2.49	2.74
35 "	2.07	2.31	2.55	2.80
36 "	2.12	2.37	2.61	2.86
37 "	2.16	2.42	2.67	2.93
38 "	2.21	2.47	2.72	2.99
39 "	2.25	2.52	2.79	3.05
40 "	2.30	2.57	2.84	3.11
41 "	2.34	2.62	2.90	3.18
42 "	2.37	2.67	2.97	3.26

(Nickel Moulding, add 1c. per in. extra to list.)

Send for Special Dash and Fender List.

Dash Feet, Wrought—

No. 110.	For Piano bodies, 1, $1\frac{1}{8}$ and $1\frac{3}{8}$ in. offset..	$6\frac{1}{4}$ c. per pair.
No. 115.	For Corning bodies, $1\frac{1}{8}$, $1\frac{1}{4}$ and $1\frac{3}{8}$ in. offset..	6c. "
No. 118.	For Bracket Front bodies.....	6c. "

Plated Dash Rails—

For Leather and Wood Dashes.

A variety of styles..... each.

ALL PRICES SUBJECT TO DISCOUNT.

Dash Rails—

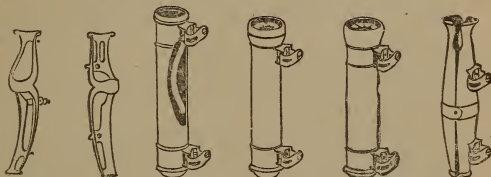
Large variety in stock,
give out to out of dash
when ordering, and send
sketch of what is wanted.

**Third Person Seats—**

Tapestry carpet top.....\$1.35 each.



No. 1. No. 2. No. 15. No. 22. No. 47. No. 64.

Whip Sockets—★

No. 1. No. 2. No. 15. No. 22. No. 74. No. 64.
Per doz.

Brass cab sockets, 10 in long.....\$10.00

No. 238½, Cart, with spring for leather dash, metal..... 1.15

“ 230½, “ “ “ wood “ “ 1.15

Buffalo No. 1, leather dash, metal..... .80

“ “ 2, wood dash, metal..... .60

“ “ 3, cart, metal..... .70

No. 9, without spring, leather dash, metal..... .90

“ 10, without spring, wood “ “90

“ 15, with spring, leather “ “ 1.10

“ 22, rubber inside “ “ 2.50

“ 47, band fastener, with rubber, leather dash, wood.. 1.90

“ 64, leather dash, metal..... 1.70

“ 64¼, wood “ “ 1.70

“ 64½, four screw “ 1.80

“ 130, wood, bell top, cone bottom, with rubber inside. 4.00

“ 298, leather coach socket..... 9.00

**Whip Socket Fasteners—★**

Chamberlain's.....90c. per doz. pair.

ALL PRICES SUBJECT TO DISCOUNT.



TOPS AND TRIMMINGS.



All Tops complete, ready to set on seat. Three or four bow steel sockets; wrought joints, japanned; No. 2 wrought rails japanned; metal buckle loops.

No. 000, 18 Ounce Rubber—

Head, back stays and back curtain lined with green or blue union cloth; side curtains, colored back enameled drill\$11.00

No. 00, 22 Ounce "Fairfield" Rubber—

Head, back stays and back curtain lined with green or blue 6-ounce all wool cloth; side curtains, colored back rubber..... 13.00

No. 0, 24 Ounce "Fairfield" Rubber—

Head, back stays and back curtain lined with green or blue 7-ounce all wool cloth; side curtains, colored back rubber..... 14.00

No. 01, Leather Quarters, 26 Ounce "Fairfield" Rubber—

Head, back stays and back curtain lined with green or blue 8-ounce all wool cloth; side curtains, 24-ounce colored back rubber..... 19.00

No. 05, Selected No. 1 M. B. Leather—

Head, back stays and back curtain lined with 10-ounce indigo cloth; 24-ounce rubber side curtains lined with 8-ounce indigo cloth; leather covered bow sockets, nuts and buckle loops; hand bound front and back; dust pockets; cloth welts..... 41.00

No. 5, Hand Buffed Leather—

Head, back stays and back curtain lined with 12-ounce indigo cloth; cloth welts; M. B. leather side curtains lined with 10-ounce indigo cloth; leather covered bow sockets, nuts and buckle loops; hand bound front and back; dust pockets..... 56.00

Tops, With bows larger than 42 in., extra.

Dust Hoods, Adjustable—

For Tops, 36 to 42-inch bows.....\$1.35 each.

Phaeton and Jump Seat Tops.

To order at special prices.

Canopy Top Curtains—

For Two Seated Jobs.

No. 18. 18-ounce green or blue back rubber, per set . \$ 7.20

" 22. 22 " " " " " " " " 8.10

" 26. 26 " " " " " " " " 9.00

These prices include all fastenings necessary for attaching curtains.

For Irons for above, see page 248.

ALL PRICES SUBJECT TO DISCOUNT.

Canopy Tops and Frames—

No. 1. Frame in the white; deck covered with enameled drill; union cloth lining; 5-inch bullion fringe; 18-ounce green or blue back curtains	\$21.60
No. 2. Frame in the white; deck covered with enameled drill; 7-ounce all wool lining; 7-inch worsted fringe; 22-ounce green or blue back rubber curtains..	23.40
No. 3. Frame in the white; deck covered with enameled drill; 8-ounce all wool lining; 7-inch cord and tassel fringe; 26-ounce green or blue back rubber curtains.....	25.20
The prices on the above are for frames measuring not more than six feet in length; standards welded and fitted and sockets ready to fit. Extra charge for lengths above six feet, per foot.....	
	1.80
No. 1. Frame, described as above, without standards, sockets or curtains.....	10.80
No. 2. Frame, described as above, without standards, sockets or curtains.....	11.70
No. 3. Frame, described as above, without standards, sockets or curtains.....	12.60

Extension Tops—

No. 1, Black Enameled Drill—	
Lined with heavy green or blue cotton drill; side and back curtains colored back enameled drill; wrought rail and joints, japanned.....	\$17.50
No. 2, 18 Ounce Rubber—	
Lined with heavy green or blue cotton drill; side and back curtains colored back enameled drill; wrought rail and joints, japanned.....	18.50
No. 9, 26 Ounce "Fairfield" Rubber—	
Head, back stays and back curtain lined with 8-ounce all wool cloth; side curtains, colored back rubber; wrought rail and joints, japanned.....	24.00
No. 10, 28 Ounce "Fairfield" Rubber—	
Head, back stays and back curtain lined with 10-ounce all wool cloth; side curtains, 24-ounce colored back rubber.....	26.00
No. 4, Split Leather—	
Head, back stays and back curtain lined with 7-ounce all wool cloth; side curtains, colored back rubber.....	37.00
No. 6, No. 1 M. B. Leather—	
Head, back stays and back curtain lined with 8-ounce all wool cloth; side curtains, 24-ounce colored back rubber.....	45.50
Extra for D. B. leather quarters on extension tops..	6.50
Extra for M. B. leather quarters on extension tops..	8.10
Deduct for tops without rails, net.....	35
Nos. 1 and 2 are blind-tacked front and back. All others are hand-bound front and back.	
Leather buckle loops are used on all leather and leather quarter tops.	
Metal buckle loops are used on all rubber tops.	

ALL PRICES SUBJECT TO DISCOUNT.

EXTRAS.

Add for extra widths in rubber tops, as follows:

42-44 inches.	9 per cent.
45-47 inches.	18 per cent.
48 inches and upward	27 per cent.

On leather tops measuring

40-42 inches.	9 per cent.
43-45 inches.	18 per cent.
45-47 inches.	27 per cent.

When leather back curtains or decks are wanted on rubber or leather quarter tops.

Add for split leather back curtain	\$2.43
“ D. B. leather back curtain	2.88
“ No. 2 M. B. leather back curtain	3.50
“ No. 1 “ “ “	3.96
“ split leather deck	3.96
“ D. B. “ “ “	4.68
“ No. 2 M. B. leather deck	5.94
“ No. 1 “ “ “	6.30

PATENT FASTENERS—

Four in back stays for back curtain	.18
Eight in back stays for back and side curtains.	.36
Twenty-eight all around, for back and side curtains..	1.26

LEATHER BOW SOCKETS—

Add to the price of any top, for three bow,	\$3.16
“ “ “ “ “ four “	3.60

Price List on Extra Back and Side Curtains.**BACK CURTAINS—**

No. 1. 18-ounce colored back rubber, unlined.	\$1.18
No. 2. 18-ounce rubber, lined with union cloth.	1.72
No. 3. 18-ounce rubber, lined with 8-ounce all wool cloth	1.98
No. 4. 24-ounce rubber, lined with 8-ounce all wool cloth	2.26
No. 5. 28-ounce rubber, lined with 10-ounce all wool cloth	2.70
No. 6. Split leather, lined with union cloth.	3.78
No. 7. D. B. leather, lined with 8-ounce all wool cloth	4.78
No. 8. No. 2 M. B. leather, lined with 8-ounce all wool cloth	5.76

SIDE CURTAINS—

No. 1. Colored back enameled drill, per pair.	1.36
No. 2. 18-ounce colored back rubber, per pair.	1.80
No. 3. 24-ounce colored back rubber, per pair.	2.26
No. 4. 24-ounce rubber, lined with 8-ounce all wool cloth, per pair.	4.06
No. 5. No. 2 M. B. leather, lined with 8-ounce all wool cloth, per pair.	10.80
No. 6. No. 1 M. B. leather, lined with 8-ounce all wool cloth, indigo dyed, per pair.	12.60

ALL PRICES SUBJECT TO DISCOUNT.

Cushions, Plain Top—	Without falls.	With falls.
No. 2, Enameled drill	\$8.24	\$11.24 per doz.
" 4, Rubber	9.00	12.50 "
" 5, Corduroy (brown)	19.50	24.00 "

These cushions kept in stock 26 to 33x14 in. Larger sizes 25c. each, extra.

Fine Cushions, With falls, moss and excelsior, corded pattern.

No. 20, Corduroy	\$2.20 each.
" 30, Imitation Leather	2.50 "
" 31, Leather	3.80 "
" 24, Broadcloth, 12 oz.	3.00 "
" 28, 14 oz. Cloth, indigo	3 90 "
" 32, Leather, M. B., blue, green or wine...	4 10 "

Cushions, biscuit pattern—

With falls. Stuffed with moss and excelsior.

No. 44, 12 oz. all wool cloth	\$3.00 each.
" 48, 14 oz. " " "	4.90 "
" 50, Artificial leather	3.00 "
" 51, Fancy split leather	4.20 "
" 52, M. B. leather	4.50 "

Above prices are for cushions measuring 28 in and under on bottom. Cushions over 28 in at special prices.

Wings on cushions, 50c. extra.

Ironed Full Backs, not ironed—

Same prices as cushions of corresponding numbers.

Panel Backs—

In the white	\$0.60 each.
" " " with springs	1.00 "

Full Backs, not ironed—

To match cushions of same numbers.

No. 2, Enameled drill	\$ 9.24 per doz.
" 4, Rubber	10.00 "
" 5, Corduroy	21.50 "

Add \$6.00 per dozen for wood and irons on above backs.

Medium Backs, 6 in. wide, biscuit pattern—

With wood and irons.

No. 40, Corduroy	\$1.80 each.
" 44, Cloth, 12 ounces	2.25 "
" 51, Fancy Split Leather	2.45 "

Medium Backs, 6 in. wide— With wood and irons.

No. 30, Imitation Leather	\$1.80 each.
" 31, Leather	2.20 "
" 24, Broadcloth, 12 oz.	2.00 "

Springs in any of above, 70c. extra.

See page 271 for Material for Tops.

Trimmings for Stick Seats—

No. 61, Whipcord, 12 oz.	\$ 7.20 per set.
" 62, " 14 "	9.00 "
" 63, " 16 "	10.80 "

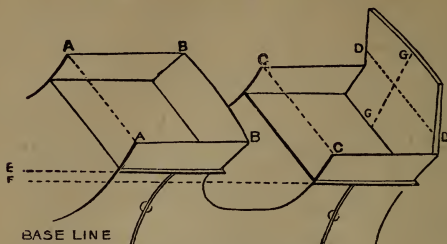
Add for spring cushion \$1.00 per set.

Trimmings consist of cushion and fall and full-back.

Backs ready to tack in, including binding and tacks.

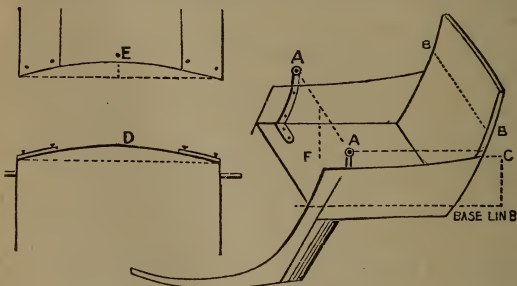
ALL PRICES SUBJECT TO DISCOUNT.

MEASUREMENTS FOR TOPS.



FOR EXTENSION TOPS.

Out to out on top of seat, A to A.....	in.
Out to out on top of seat, C to C.....	in.
Length of back, D to D.....	in.
Distance back of front seat to front of back seat, B to C.....	in.
Height of back, G to G (and state if solid back or narrow back, and if ironed.....	in.
Which seat is highest, and how much higher? E to F....	in.
If seats are ironed, what is relative height of goose necks and the eyes on front seat?.....	in.



FOR PHAETON TOPS.

Give seven measurements as below:

A to A (if seat is ironed).....	in.
If not ironed, give measurement out to out on top of seat.....	in.
B to B.....	in.
From seat bottom to F (if seat is ironed).....	in.
If not ironed, to level line across seat.....	in.
Center of goose neck A to back side of seat back at point C.....	in.
Upward curve of back at E.....	in.
Outward curve of back at D.....	in.

N. B.—Do not cut this page out but make a drawing and mark in the dimensions as above.

ALL PRICES SUBJECT TO DISCOUNT.

Material Required for Tops

FULL LEATHER BUGGY TOP.

Top Leather.....	60 ft.	Prop Block Washers. $\frac{1}{2}$ doz.	
Body Cloth.....	$1\frac{1}{2}$ yds.	Curtain light	1 only.
Head Lining.....	4 "	Bow Sockets.....	1 set.
Buckram	$1\frac{1}{2}$ "	Props.....	1 "
Enam. Drill.....	$\frac{1}{2}$ "	Prop Nuts	$\frac{3}{4}$ doz.
Tanback & Moleskin	1 "	Prop Rivets.	$\frac{1}{8}$ "
Curled Hair.	10 lbs.	Stump Joints.....	$\frac{1}{8}$ "
Knobs	$1\frac{1}{2}$ doz.	Shifting Rail.....	1 set.
Knob Eyelets	$2\frac{1}{2}$ "	Short Bows	1 "
Double Buckle Loops. $\frac{1}{8}$ "		Tacks, Cord, Lining Nails,	
Rubber Prop Block.....	8 in.	Buttons or Tufts sufficient.	

FULL RUBBER TOP, same material as above, except in place of leather, $2\frac{1}{2}$ yards of Rubber for roof, side-quarters and back stays, and 3 yards colored-back rubber for curtains. For Apron 2 yards white-back rubber.

PHAETON TOP.

Body Cloth.....	2 yds.
Head Lining, only...	$1\frac{1}{2}$ "
Head & Curtain Lin'g	4 "
Rubber Roof, Quar-	
ters and Stays.....	$2\frac{1}{2}$ "
Rubber, Curtains only	3 "

EXTENSION TOP.

Body Cloth.....	4 yds.
Head Lining, only...	3 "
Head & Curtain Lin'g	5 "
Rubber Roof, Quar-	
ters and Stays	$5\frac{1}{2}$ "
Rubber for Curtains...	6 "
For Full Leather Top	2 hides.

SURREY CANOPY TOP.

Body Cloth.....	$3\frac{1}{4}$ yds.
Head Lining, only...	$2\frac{1}{2}$ "
Head and Curtain Lin-	
ing.....	$8\frac{1}{2}$ "
Rubber Roof.....	$2\frac{1}{2}$ "
Rubber for Curtains	
only.....	7 "
Fringe, where no hood	
is used	7 "
Fringe, where hood is	
used.....	6 "

PHAETON CANOPY TOP.

Body Cloth.	$1\frac{1}{2}$ yds.
Head Lining. ..	$1\frac{1}{2}$ "
Head and Curtain	
Lining.....	$5\frac{1}{2}$ "
Rubber Roof and Cur-	
tains.....	$6\frac{1}{4}$ "
Rubber for Curtains	
only.....	$4\frac{1}{2}$ "
Fringe, where no hood	
is used.....	4 "
Fringe, where hood is	
used.....	$2\frac{1}{2}$ "

ALL PRICES SUBJECT TO DISCOUNT.

Aprons—

No. 110.	Imitation Rubber.....	\$0.70 each.
" 106.	Genuine ".....	.88 "
" 6.	Watson's Genuine Rubber, Adjustable....	1.15 "

Wool Dusters—★

Per dozen.....	\$9.60
----------------	--------

Neckyokes, Finished—★

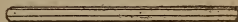
Trimmed and painted, with silver tips.

$\frac{3}{8}$ in. tips, 40 in. long, buggies, \$2.45 each.

1 " " 44 " " carriages, 2.75 "



Shaft Straps—



Raised Centers, 6 pieces to set.....	15c. per set.
Round.....	35c. "

Shaft Leathers—

A set consists of 2 pieces, 4x5 $\frac{1}{2}$ x24 in, and 4 pieces

5x6 inches.....56c. per set.

Safety Straps—



$\frac{7}{8}$ x52 in.....	36c. per pair.
---------------------------	----------------

Name Plates—



Nos. 1900—1901. Lettered to order.

	Nickel	Aluminum	Silver
25.....	\$ 2.25	\$ 2.25	\$ 3.00
50.....	3.00	3.38	4.50
100.....	4.50	4.88	13.50
200.....	8.25	9.00	14.25
500.....	13.50	14.25	28.50

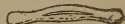
These quantities can only be of one lettering.



Inside Door Handles—★

No. 350.	Silver.....	\$1.40 per pair.
" 350.	Leather covered.....	2.00

Pull-To Handles—★



No. 364.	Stiff, morocco covered.....	\$1.00 per pair.
" 365.	Flexible, morocco covered.....	1.30

Lever Handles—★



No. 390.

No. 378.

No. 378 $\frac{1}{2}$.

No. 390.	2 in. long, Morocco covered.....	\$1.44 per pair.
" 378.	Silver, 1 $\frac{3}{4}$ in. long.....	.96
" 378 $\frac{1}{2}$.	" 1 $\frac{3}{8}$ " ".....	.96



Club Handle Nuts—

No. 370.	Silver.....	\$6.00 per doz. pair.
" 370.	Gold.....	7.50 " "

ALL PRICES SUBJECT TO DISCOUNT.

Club Handle Nuts and Collars—★

No. 373. Silver.....\$6.00 per doz. pairs.
 " 373. Gold..... 7.50

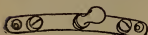


End Gate Fasteners, Plated—

Several styles.....\$1.50 to \$3.50 per set.

Boot Hooks, Silver—★

No. 2.....\$2.50 per doz. pair.



Tug Stops—★

Silver, straight or curved\$1.40 per pair.

Pray's Apron Fasteners—★

Silver.....\$1.50 per doz.
 Gold..... 3.00



Littlejohn's Apron Fasteners—

Silver.....90c. per doz.

Landau Top Fasteners—

Full Silver.\$3.20 per pair.
 Japanned base..... 2.00



Landau Window Frame Fasteners—★

Totten's Pattern, silver.....\$2.50 per set.

Sash Lifts—★

No. 46. Silver, with screws.....\$2.50 per doz.



No. 46.

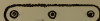
Window Springs—★

Japanned.....34c. per doz.



Plain Lace Plates—★

Silver, 2¾ in. long, with screws.....\$1.25 per doz.



Irving's Lace Plates—

Hinge Plates, 2¾ in. long, with screws.....\$4.00 per doz.

Rubber Head Tacks—

Large.....\$3.00 per gross.
 Small..... 2.25



Speaking Tubes and Whistles, Combined—

Silk covered.....\$12.00 each.

ALL PRICES SUBJECT TO DISCOUNT.

Phaeton Sill Plates—

Japanned.....	30c. per pair.
Silver.....	60c. “
Rubber 11x1¼ in.....	36c. “

Odometers—Model “B.”

For measuring distance vehicle has traveled.

Price with bell\$3.00 each.

Imitation Cane Work—

Light. not lined 21x80 in.....\$7.20 per piece.

Trimmers' Tools—

We are prepared to fill all wants upon application.

Trimmers' Clips—

Per dozen.....\$1.75

Trimmers' Shears—★

Heinisch's	11	12	13 in.
Bent	\$1.50	\$1.60	\$1.80 per pair.

Trimmers' Hammers—

No. 59, Hickory Handle, with claw	\$1.65
No. 60, “ “ without claw	1.20

Needles—

Magic.

Magic, for inserting buttons without opening cushion or back, with fasteners.....\$2.00 each.

Tufting, 6 to 14 inches68 “

two eyes..... .20 “

Glovers' No. 00..... 7.80 per M.

“ “ 0..... 7.20 “

“ “ 1 to 4 6.20 “

Harness, “ 1 to 4 4.20 “

Coach Candles—★

⅞ x 2½ in.....	\$0.25 per doz.
1&1-16 x 3 “.....	.50 “
1&1-16x 5 “.....	.80 “

COACH MOUNTINGS

We carry a line of Celluloid Mountings in black, white and tortoise shell. Handles, Eyelets, Frogs, Slides, Cord Runners, Mirrors, Knobs, Screws, Hooks, Cases, etc., also Morocco Covered Trimmings and Mountings.

We will be pleased to quote prices on any of the above upon application.

ALL PRICES SUBJECT TO DISCOUNT.

MASURY'S SUPERFINE COACH PAINTERS' COLORS—★

For Coach, Carriage and Car Work.

These Colors are ground in japan and will dry at once.

BLACKS—

Per lb.

Superfine	Ivory Jet Black.	\$0.40
"	Ivory Black.	.32
"	Coach Painters' Drop Black.	.26
"	Drop Black, C.	.22
"	Lamp Black.	.20

REDS—

Superfine	Tuscan Red, L. and D.	.30
"	Royal Red.	.19
"	Aurora Red.	.75
"	Indian Red, L. and D.	.27
"	Western Red.	.40
"	One-Coat Scarlet.	.50
"	Claret.	.37
"	American Vermilion, L. and D.	.34
"	Eureka Vermilion.	.40
"	English Vermilion, L. and D.	.40
"	Wine Color.	.32
"	Light.	.32
"	No. 1.	.27
"	Rose Pink.	.32
"	Road Cart Red.	.42
"	1894 Red.	.32
"	Garnet.	.27
"	Cardinal Red.	.40
"	Striping Red, in Tubes.	1.50
"	Permanent Red.	.50
"	Carmine No. 40.	4.50

BROWNS—

Superfine	Raw and Burnt Turkey Umber.	.26
"	Ohio Brown, L. and D.	.30
"	Corsican Brown.	.37
"	Coach Painters' Brown, L. and D.	.30
"	Imperial Brown, L. and D.	.30
"	Vandyke Brown.	.27
"	Portland Brown.	.38
"	Amber Brown.	.38
"	Portland Amber.	.38
"	Baldwin Brown.	.38
"	Raw and Burnt Italian Sienna.	.27
"	Russet, Light.	.28
"	Deep.	.28

ALL PRICES SUBJECT TO DISCOUNT.

Masury's Superfine Coach Painters' Colors*—Continued.

		Per lb.
BLUES—		
Superfine	Chinese Blue	.75
"	Ultramarine Blue	.60
"	Prussian Blue	.75
"	Cobalt Blue	1.00
"	Perfect Blue	1.00
"	Azure Blue	.30
"	Cerulean Blue	.75
"	Mazarine Blue	.60
"	Plum Color	.37
"	Turquoise Blue	.38
WHITES—		
Superfine	Zinc White	.26
"	Silver White	.27
"	Flake White	.37
"	Chremnitz White	.37
GREENS—		
Superfine	Quaker Green, L., M. and D	.37
"	Coach Painters' Green, L. L., L., M. and D	.32
"	Very Deep Green	.60
"	Brewster Green, L. and D	.32
"	Merrimac Green, L. and D.	.28
"	Royal Green, L. and D.	.26
"	Milori Green, L., M. and D	.60
"	New Green	.40
"	Brilliant Green	.40
"	Masury's Green, L., M. and D.	.60
"	Nile Green	1.00
"	Invincible Green	.50
"	Blue Green	.37
"	Sap Green	.38
"	Persian Green	.37
"	Moss Green	.32
"	Russian Green	.32
YELLOWS—		
Superfine	French Chrome Yellow	.50
"	Chrome Yellow, L. L., L. M., O. & D. O.	.32
"	Perfect Yellow	2.00
"	Citron Yellow	.37
"	Naples Yellow, L. and D	.75
"	Oriental Yellow	.37
"	Primrose Yellow	.40
"	Dutch Pink	.37
"	Golden Ochre	.25
"	English Oxford Ochre	.20
"	Imitation of Gold for Striping	.50
"	Car Body Color	.20
"	Pullman Standard, Car Body Color	.25
"	Colonial Yellow	.37
Albion Drab		.37

ALL PRICES SUBJECT TO DISCOUNT.

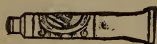
MASURY'S READY MADE GLOSS CARRIAGE PAINTS—★

In Eleven Colors.

	Quarts.	Pints.	½ Pints.
Tuscan Red, Coach Painters'			
Green, Claret, Bronze Green,			
Lemon Chrome, Deep Blue,			
Ivory Black, Wine Color.....	\$0.75	\$0.45	\$0.30
White, Vermilion, Carmine..	1.00	.60	.40

MASURY'S WAGON PAINTS—★

	1 Gals.	½ Gals.	¼ Gals.
	Per Gal.	Per Gal.	Per Gal.
Yellow, Red, Green, Wine,			
Blue, Black.....	\$2.00	\$2.10	\$2.20



*** FINELY PREPARED OIL COLORS IN TUBES.**

For Striping, ordinary colors.....70c. per dozen, single tubes.
 " " " "30c. " double "

CARTER'S WHITE AND RED LEAD.

Strictly Pure. In Oil and Dry.

In kegs of 12½, 25, 50, 100 and 250 lbs....13½c. per lb.
 In quantities of 500 lbs. and over.....12½c. "

This lead has a fine reputation among the principal carriage manufacturers. It is whiter, finer, and with heavier body than other brands. Works freely under the brush, and is very durable.

Transfer Ornaments and Letters can be furnished in endless variety at manufacturers' prices.

ALL PRICES SUBJECT TO DISCOUNT.

ACME DRY COLORS.

In 6 lb. cans.

GREENS— Per lb.

No. 100. Permanent, light, medium and dark.....\$0.18

Royal Wagon.16

" 80, Essex Chrome permanent, (Wagon Box)
light, medium and dark..... .14

REDS—

No. 100. Chromozine Permanent Vermilion, Scar-
let and Dark, very fine, to be used in
place of English..... .56

Wagon and Implement Vermilion30

No. 10. Wagon Gear Red..... .19

" 75, Tuscan.23

" 40. Indian11

" 20. Venetian 2½c.

" 40. English Venetian 3 c.

YELLOW—

No. 80. Chrome, Lemon, Medium, Dark and Orange \$0.19

" 70.15

BROWNS—

Sienna, raw and burnt..... .16

Umber " " "12

LAMP BLACKS—Germantown.

1-lb. Package. 14c. per lb.

½-lb. " 15c. "

¼-lb. " 17c. "

Masury's Wood Filler—★

In paste form.

1 lb. 2 lbs. 5 lbs. 12½ lbs. 25 lbs.

16c. 16c. 15c. 14c. 11c. per lb.

In liquid form.

Half-pints. Pints. Quarts. Half-gallons. Gallons.

16c. 24c. 40c. 70c. \$1.25

Masury's Rough Stuff—

In Paste Form, Light and Dark, 20c. per lb.

ALL PRICES SUBJECT TO DISCOUNT.

VALENTINE'S SUPERFINE VARNISHES.

*

In one gallon cans.

FINISHING.

	Per gal.
WEARING BODY	\$6 00
For finishing coats only.	
MEDIUM DRYING BODY	6 00
For finishing coats only.	
ELASTIC GEAR	5 00
For finishing the wheels and under parts of carriages.	
ONE COAT COACH	4 50
For finishing coats on ordinary work.	
ONE COAT GEAR ..	3 50
For finishing coats on ordinary work.	

RUBBING.

HARD DRYING BODY	\$5 00
A four-day rubbing varnish.	
QUICK LEVELING	4 00
A two-day rubbing varnish.	
FLATTING	3 00
For ordinary and quick work.	
BLACK JAPAN	4 50
For producing a jet black surface on coaches.	
BLACK COLOR-AND-VARNISH	4 00
A ready made mixture of drop black and varnish, for use on coach work.	
No 1 BLACK	1 50
For touching up, blacking the iron of carriages, etc.	

MISCELLANEOUS.

CARRIAGE TOP DRESSING	4 00
For renovating the black enameled leather of carriage tops.	
QUICK BLACK LACQUER	4 00
For touching up, repairing iron work of gears, etc.	
JAPAN GOLD SIZE	3 50
For binding, drying and hardening colors.	
CROWN COACH JAPAN	1 75
For drying and hardening paints.	
DARK PERMANENT WOOD FILLING	4 00
A patent article for priming outside work.	
LIGHT PERMANENT WOOD FILLING	4 00
A patent article for priming outside work; being light colored, it fills without staining the wood.	

ALL PRICES SUBJECT TO DISCOUNT.

* CHICAGO VARNISH CO.'S SUPERFINE VARNISHES.

	Per gal.
PALE DURABLE BODY	\$6 00
This is a very pale Varnish. It is made of the very choicest materials known; is exceedingly brilliant and durable, and works very easily under the brush. It dries safe from dust in ten hours, and owing to its great elasticity, will endure extreme heat and cold without cracking. It is intended for the finishing coats of bodies.	
STANDARD WEARING BODY	\$5 50
This Varnish is of the finest quality and used for finishing coats only. It is very light, works freely, and dries out of the way of dust in twelve to fifteen hours. It is unsurpassed for brilliancy and durability.	
HARD DRYING BODY	5 50
This is a very fine Body Finishing, intended to dry more rapidly than such generally do. It has a very fine lustre and great durability. It dries safe from dust in eight hours and is invaluable for fine Coach work where haste is required, and in very hot weather.	
ONE COAT COACH	4 50
This Varnish is especially adapted for finishing where haste is required and Rubbing Varnish has to be dispensed with. It has a good body, fine lustre, works freely, and one coat is sufficient over dead color or color Varnish. Dries in seven to eight hours.	
No. 1 CARRIAGE BODY	4 00
For Finishing Coats, where work is hurried, and a cheaper article is desired than "One Coat Coach." It has a good body, flows well, and dries with a fine lustre.	
STANDARD GEAR	4 50
For running parts of vehicles. It possesses great brilliancy and durability. Dries free from dust in ten hours.	
DURABLE COACH	2 00
This is a brilliant, flowing Varnish for the better class of light wagons, &c., where a less expensive article than the Quick Finishing is required. It is very durable, dries hard in twenty to twenty-four hours.	
No. 1 CARRIAGE GEAR	3 50
This is a quick-drying Varnish with a heavy body; works freely and has a good lustre. It is intended for hurried work of any kind.	
HARD RUBBING	4 25
For high grade work. Flows perfectly. In clear weather, if not hot, it can be rubbed in two or three days without "sweating." In very warm weather give it at least three days.	

ALL PRICES SUBJECT TO DISCOUNT.

**JOHN W. MASURY & SON'S SUPERFINE
VARNISHES.***

	Per gal.
PALEST WEARING BODY	\$6.00
The palest Carriage Finishing Varnish ever produced. It is brilliant, durable, and dries free from dust in about eight hours, "setting" slowly.	
PALEST MEDIUM DRYING BODY	6.00
Similar to above in color, working and flowing, except it hardens much quicker.	
PALEST HARD DRYING BODY	5.50
Same flowing and working qualities as above, though not quite as durable. Suitable for finishing hurried work.	
PALEST RUBBING BODY	4.50
This is the palest Rubbing Varnish produced, being practically colorless; is very easy to work, and has remarkable flowing qualities. Will rub in about three days.	
QUICK RUBBING.	4.00
May be rubbed closely in forty-eight hours without sweating.	
QUICK BLACK RUBBING	4.00
Hardens to rub in about thirty-six hours.	
NEW WEARING BODY	3.50
Similar to Palest Wearing Body except color, at the same time it is pale enough for all Dark Colors.	
MEDIUM DRYING BODY	3.50
Similar to above but hardens quicker.	
HARD DRYING BODY	3.50
Hardens much quicker than either of above and makes a good five-day rubbing.	
No. 1 CARRIAGE	3.00
Of a good, heavy body, pale and durable, adapted for finishing with one coat.	
No. 1 GEAR VARNISH	3.00
For finishing running parts with one coat over color and varnish. Dries over night.	
COACH BODY VARNISH	3.15
A good all-round quick drying Varnish for finishing all kinds of work.	
JAPAN GOLD SIZE	3.00
A quick size for gilding, and a good dryer for color. Above in one-half gallon cans, 10c extra, net per gallon	

ALL PRICES SUBJECT TO DISCOUNT,

Paint and Varnish Remover—

1 gallon cans.....\$1.35 per can.
 $\frac{1}{2}$ " "70 "

Does the work clean to the wood. Does not injure brushes nor stain the wood. Softens varnish and paint in three to five minutes.

DIRECTIONS: Flow on a good coat of the Remover. When soft to the wood remove with putty knife, scraper, waste or cloth. The surface should then be thoroughly cleaned with benzine or naphtha.

PAINT BURNERS. *

No. 12. Turner's Old Reliable\$3.00 each.

No. 3. Turner's Double Jet

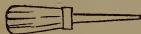
Torch for light brazing.... 5.00 "



Patented June 11, 1902

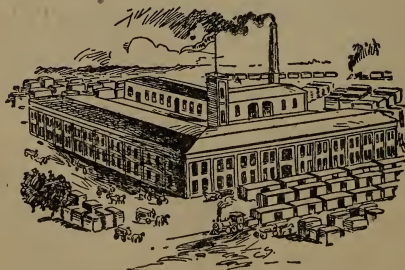
PAINT PRESSES.

For forcing contents out of 5 and 10 lb. patent press cans and indispensable where these are used,net,\$1.75



BRUSHES.

We furnish at lowest market prices a full line of superior Brushes, of all styles used by carriage painters.



FACTORY ELKHART, IND

ALL PRICES SUBJECT TO DISCOUNT.

DEPARTMENT

Wagon and Carriage Wood Material

Being extensive manufacturers of many goods in this line, we desire to call your particular attention to this department, comprising

BODIES,
HUBS,
SPOKES,
BENT RIMS,
SAWED FELLOES,
EVENERS,
SINGLETREES,
WHEELS,
SHAFTS,
POLES, ETC.

WE MANUFACTURE BUGGY AND SURREY BODIES, SPOKES AND EVENERS, AND OTHER WAGON WOOD STOCK.

The brands of our spokes mean just what they have always meant,

“STANDARD FOR QUALITY.”

We manufacture HIGH GRADE BODIES only.

WAGON AND CARRIAGE WOOD MATERIAL.

Axles, Rough—			Maple.	Hickory.
3	x4	x6 feet	\$0.48	\$0.60 each.
3½	x4½	x6 "	.70	.95 "
4	x5	x6 "	.90	1.20 "
4	x6	x6 "	..	1.45 "
4½	x5½	x6 "	..	1.75 "
4½	x6	x6 "	..	1.90 "
5	x6	x6 "	..	2.10 "
6	x7	x7 "	..	3.75 "

Hickory Axles, Finished — Hind and Front.

	each.		each.
For 2½ in. skeins,....	\$0.80	For 3¾ in. skeins ...	\$1.60
" 2¾ "	.90	" 4 "	1.80
" 3 "	1.10	" 4½ "	1.90
" 3¼ "	1.20	" 4½ "	2.00
" 3½ "	1.30		

Unless otherwise ordered narrow track will be sent.

Bolsters and Sand Boards, Oak, Rough—

	4 Feet.	4½ Feet.
2 x4 in.	\$0.24	\$0.27 each.
2½x4 "	.30	.34 "
3 x4 "	.36	.40 "
3½x4½ "	.47	.53 "
3½x5 "	.53	.59 "
4 x5 "	.60	.68 "
4½x5½ "	.74	.84 "
5 x6 "	.90	1.01 "

Oak Bolsters, Finished and Rounded—

Narrow Track.

Front.	Hind.
3 x4 in. ....40c. each.	2¾x3¾in. ....36c. each.
3¼x4¼ "44c. "	2⅞x3¾ "36c. "
3⅝x4⅝ "50c. "	3 x4 "40c. "
3¾x4¾ "60c. "	3¼x4¼ "44c. "
	3⅝x4⅝ "50c. "

Mortised for stakes 4c. per bolster. Wide track 8c. extra.

Oak Sand Boards, Finished—

2¾x3 in. ....40c. each.	3¼x3 in. ....50c. each.
2⅞x3 "40c. "	3½x3 "50c. "
3 x3 "44c. "	

If desired 3¾ in. deep, 6c. extra.

Reaches, Oak, Rough—

	8 Feet.	10 Feet.	12 Feet.	14 Feet.	16 Feet.
2 x4 in.	\$0.48	\$0.60	\$0.72	\$0.84	\$0.96 each.
2½x4½ in.	.68	.84	1.01	1.18	1.35 "
2½x5 in.	..	.94	1.13	..	.. "

Dressed, 2x4 in.10c. extra net.
 " larger.15c. " "

ALL PRICES SUBJECT TO DISCOUNT.

Tongues, Rough—

3 x3 in. at butt 12 feet long, Ash.....	\$1.00 each.
3½x3½ in. " " " " "	1.00 "
4 x4 in. " " " " "	1.30 "
4½x4½ in. " " " " "	1.50 "
4 x4 in. " 14 feet " "	1.70 "
4½x4½ in. " " " " "	1.80 "
4 x5 in. " " " " "	1.80 "
5 x5 in. " " " " "	2.00 "

Tongues, Rough—

4 x4 in. at butt, 12 feet long, oak	\$1.20 each.
---	--------------

Tongues, Rough—

No. 2, Ash, 4x4x12 feet long.....	.80c. each.
" 2, Oak, 4x4x12 feet "	.70c. "

Tongues, Finished—

	Ash.	Oak.
3½x3½ in. at hawns, 12 feet long, No. 1.....	\$1.50	\$1.40 each.
3½x3½ in. " " " " 2.....	.80	.70 "

Tongues, Second Growth Ash—

4 x4 in. at butt, 12 feet long, rough.....	\$2.50 each.
3½x3½ in. at hawns, 12 " finished.....	2.70 "

Truck Poles—**Black Hickory, Rough.**

2½x4½x14 feet.....	\$1.70 each.
2½x5 x14 "	1.80 "
3 x5 x14 "	2.00 "
3 x6 x14 "	2.25 "

Brake Bars, Oak, Rough—

2 x5 x6 feet.....	\$0.45 each.
2 x6 x6 "	.54 "
2½x5 x6 "	.56 "
2½x6 x6 "	.68 "
3 x6 x6 "	.81 "
3 x7 x6 "	.95 "

Bed Pieces, Oak—

3x1½x4 feet.....	9c. each.
3½x1½x4 feet	10½c. "
4x1½x4 "	12c. "

ALL PRICES SUBJECT TO DISCOUNT.

Hardwood Lumber—

Oak and Ash.

First and Second Grades running 6 in. and upwards in width.

Select, 1st and 2nd grades, 1, 1¼, 1½ and 2 in. thick... 9c. per foot.
2½, 3 and 4 in. thick 11c. "Selected widths, 12 in. and upwards, 1c. per foot extra net.
Hickory.

First and Second Grades, running 6 in. and upwards in width.

Select, 1st and 2nd grades, 1, 1¼, 1½ and 2 in. thick... 11c. per ft.
2½ and 3 in. thick 12c. "

Selected widths, 10 in. and upwards, 1c. per foot extra net.

DRESSING LUMBER, two sides, ½c. per foot extra net.

No lumber dressed for less than 25c. net.

Whitewood (Poplar)—

Dressed both sides to ½ in. 14 in. wide and under, 9c. per foot.

" " " " 15 to 24 in. wide 11c. "

" " " " 25 to 30 in. " 12c. "

" " " to ¾ in. 12 in. wide and under 9c. "

" " " " 13 to 16 in. wide 10c. "

" " " " 17 to 19 in. " 11c. "

" " " " 20 in. wide and upwards, 13c. "

We handle only the best graded seasoned lumber.

Harrow Timber, Oak—

2½x2½x4 feet 6 inches 6c. per ft.

2½x1 x12 " 6c. "

Dressing four sides, extra 1c. "

Rake Teeth, Hickory—

2 in. round in center, 4 ft. long, tapering to 1 in.

at ends \$1.50 per dozen.

Sawed Wagon Gearing, Narrow Track—

Complete set \$1.34

Front Hawns32 per pair.

Hind "40 "

Tongue "32 "

Sway Bars16 each.

Stakes (4)14 per set.

Wide Track to order at special prices.

Finished Sawed Wagon Gearing—

Front Hawns \$0.32 per pair.

Hind "60 "

Tongue "40 "

Sway Bars16 each.

Sand Boards, 3½x350

Bent Front Wagon Hawns—

Bent, regular, 3 in. wide, 2 in. deep.. 80c. each.

" 2 in. wide, 3 in. deep 90c. each.



ALL PRICES SUBJECT TO DISCOUNT.

Felloes, sawed 3-8 and 4-6 circles—

	Per set.	Front Bundles	Hind Bundles
1½x2 in. deep...	\$1.80	\$0.90	\$0.99
1½x2¼ in. "...	1.80	.90	.99
1¾x2¼ in. deep.....	2.00	1.00	1.10
1¾x2½ in. ".....	2.00	1.00	1.10
2 x2½ in. ".....	2.10	1.05	1.15
2 x2⅝ in. ".....	2.20	1.10	1.21
2 x2¾ in. ".....	2.30	1.15	1.26
2¼x3 in. ".....	3.50	1.75	1.92
2½x3 in. ".....	4.50	2.25	2.47
3 x3 in. ".....	5.00	2.50	2.75
3 x3½ in. ".....	6.00	3.00	3.30

Dressing Felloes, 2 in. tread and smaller, add 15c. per set net.

Dressing Felloes, 2¼ in. tread and larger, add 20c. per set net.

Felloes, Dressed and Rounded—

1⅝x2¼ in.	\$2.60	per set.
1¾x2⅝ in.	2.60	"

Felloes, sawed, odd diameters, in stock—

2 feet 6 in., 2 feet 8 in., 2 feet 10 in., 3 feet, 3 feet 2 in., 3 feet 4 in., 3 feet 6 in., 4 feet and 4 feet 2 in.	
1¾x2¼ in. deep	\$1.80 per set.
2 x2½ in. ".....	1.90 "
2½x3 in. ".....	3.20 "
3 x3 in. ".....	4.50 "

Hickory Bent Carriage and Wagon Felloes-*

Sizes carried in stock designated by "a."

Price per set of four wheels.

Heights not exceeding 3 ft. 8 in. and 4 ft. 4 in.

Size Inch.	Select Forest.	Black Hickory	Size, Inch.	Select Forest.	Black Hickory.
7/8	\$1.05	\$1.80	1¾	\$2.20	\$ 3.00
a 7/8x1	1.05	1.80	1⅞	2.50	3.50
1	1.05	1.80	a 1¾x2	2.80	3.80
a 1 x1½	1.15	1.85	a 2	2.90	4.00
1⅞	1.15	1.85	1¾x2¼	3.80	4.80
a 1⅞x1¼	1.30	2.00	a 2 x2¼	3.80	4.80
1¼	1.30	2.00	2¼	4.00	5.00
a 1¼x1⅝	1.45	2.20	a 2 x2½	5.50	7.00
1⅝	1.45	2.20	2¼x2½	5.50	7.00
a 1⅝x1½	1.65	2.40	2½	6.50	8.50
1½	1.65	2.40	2½x2¾	8.50	10.25
a 1½x1⅝	1.90	2.60	2¾	8.75	10.75
1⅝	1.90	2.60	2½x3	11.00	13.50
a 1⅝x1¾	2.20	3.00	3	12.00	14.00

ALL PRICES SUBJECT TO DISCOUNT.

Hickory Bent Felloes, Beveled—

$\frac{3}{4}$ x1 and $\frac{7}{8}$ x1 $\frac{1}{8}$	} 16c. per set over price of same sizes of bent hickory felloes.
1 x1 $\frac{1}{4}$	
$1\frac{1}{8}$ x1 $\frac{3}{8}$	
$1\frac{1}{4}$ x1 $\frac{1}{2}$	

For packing fronts and hinds separate 3% net will be added.

Hickory Bent Hay Rake Felloes—★

4 feet 6 in. high.

$1\frac{1}{4}$ in. square	\$0.90	per set of two wheels.
$1\frac{3}{8}$ in. "	1.00	" " "
$1\frac{1}{2}$ in. "	1.10	" " "

Hickory Bent Sulky and Cart Felloes—★

Price per set of two wheels.

Select Forest.		Select Forest.	
$\frac{7}{8}$	\$0.75	$1\frac{3}{4}$	\$1.50
$\frac{7}{8}$ x1	.75	$1\frac{7}{8}$	1.70
1	.75	$1\frac{3}{4}$ x2	1.90
1 x1 $\frac{1}{8}$	.80	2	1.95
$1\frac{1}{8}$	.80	$1\frac{3}{4}$ x2 $\frac{1}{4}$	2.55
$1\frac{1}{8}$ x1 $\frac{1}{4}$	.90	2 x2 $\frac{1}{4}$	2.55
$1\frac{1}{4}$	.90	$2\frac{1}{4}$	2.70
$1\frac{1}{4}$ x1 $\frac{3}{8}$	1.00	2 x2 $\frac{1}{2}$	3.70
$1\frac{3}{8}$	1.00	$2\frac{1}{4}$ x2 $\frac{1}{2}$	3.70
$1\frac{3}{8}$ x1 $\frac{1}{2}$	1.10	$2\frac{1}{2}$	4.00
$1\frac{1}{2}$	1.10	$2\frac{1}{2}$ x2 $\frac{3}{4}$	5.00
$1\frac{1}{2}$ x1 $\frac{5}{8}$	1.30	$2\frac{3}{4}$	5.40
$1\frac{5}{8}$	1.30	$2\frac{1}{2}$ x3	6.00
$1\frac{5}{8}$ x1 $\frac{3}{4}$	1.50	3	6.70

Hickory Bent Cultivator Felloes—★

2 ft. 6 in., 2 ft. 8 in. high.

$1\frac{1}{4}$ in. square	\$0.65	per set of two wheels.
$1\frac{3}{8}$ " "	.73	" " "
$1\frac{1}{2}$ " "	.83	" " "

Oak Bent Wagon Felloes—★

Sizes carried in stock designated by "a."

Price per set of four wheels.

1 x1 $\frac{1}{4}$	\$1.25	$1\frac{7}{8}$	\$2.50
$1\frac{1}{4}$	1.25	a2	2.70
$1\frac{1}{4}$ x1 $\frac{3}{8}$	1.40	a1 $\frac{3}{4}$ x2 $\frac{1}{4}$	3.00
$1\frac{3}{8}$	1.40	a2 x2 $\frac{1}{4}$	3.25
$1\frac{1}{4}$ x1 $\frac{1}{2}$	1.60	$2\frac{1}{4}$	3.55
$1\frac{3}{8}$ x1 $\frac{1}{2}$	1.60	a2 x2 $\frac{1}{2}$	4.00
a1 $\frac{1}{2}$	1.60	a2 $\frac{1}{4}$ x2 $\frac{1}{2}$	4.75
$1\frac{1}{2}$ x1 $\frac{5}{8}$	1.80	$2\frac{1}{2}$	5.00
a1 $\frac{3}{8}$	1.80	$2\frac{1}{4}$ x2 $\frac{3}{4}$	6.00
$1\frac{1}{2}$ x1 $\frac{3}{4}$	2.10	$2\frac{1}{2}$ x3	7.00
a1 $\frac{1}{4}$	2.10	3	8.00
$1\frac{1}{2}$ x2	2.20	3 x3 $\frac{1}{2}$	10.00
a1 $\frac{3}{4}$ x2	2.50		

ALL PRICES SUBJECT TO DISCOUNT.

Oak Bent Broad Tread Truck Felloes—*

Sizes carried in stock designated by "a."

Price, per set of four wheels.

Height not exceeding 3 ft. 8 in. and 4 ft. 6 in.

1½x1¼	\$1.50	3½x2¼	\$5.75	5 x3	\$13.00
1¾x1¼	1.75	3½x2½	6.75	6 x1½	7.00
1¾x1½	1.90	3½x2¾	7.75	6 x1¾	8.00
a2 x1¼	2.05	3½x3	8.75	6 x2	9.00
a2 x1½	2.15	4 x1¼	3.95	6 x2¼	10.25
2 x1¾	2.40	a4 x1½	4.35	6 x2½	11.50
2¼x1¼	2.20	a4 x1¾	4.95	6 x2¾	13.00
2¼x1½	2.40	a4 x2	5.60	6 x3	15.00
2¼x1¾	2.75	4 x2¼	6.50	7 x1½	9.00
2¼x2	3.10	4 x2½	7.50	7 x1¾	10.00
a2½x1¼	2.50	4 x2¾	8.50	7 x2	11.25
a2½x1½	2.70	4 x3	9.50	7 x2¼	12.50
a2½x1¾	3.05	4½x1¼	4.50	7 x2½	14.00
a2½x2	3.45	4½x1½	5.00	7 x2¾	16.50
2½x2¼	4.05	4½x1¾	5.75	7 x3	19.00
3 x1¼	3.00	4½x2	6.50	8 x1½	10.50
a3 x1½	3.25	4½x2¼	7.50	8 x1¾	12.00
a3 x1¾	3.75	4½x2½	8.75	8 x2	14.00
a3 x2	4.30	4½x2¾	10.00	8 x2¼	16.25
3 x2¼	4.85	4½x3	11.50	8 x2½	18.50
3 x2½	5.75	5 x1½	6.00	8 x2¾	21.25
3 x2¾	6.90	a5 x1¾	6.75	8 x3	24.00
3½x1¼	3.50	a5 x2	7.50	8 x3½	28.00
a3½x1½	3.80	5 x2¼	8.50	8 x4	34.00
a3½x1¾	4.40	5 x2½	9.50		
a3½x2	5.00	5 x2¾	11.00		

Be particular to mention size, height and kind of felloes wanted.

Always mention depth last, thus: 1¾x2¼ deep, 3x1¾ deep, etc.

Felloes can be furnished bent to any diameter from 2 ft. to 8 ft. long.

Felloes are neatly packed, planed and squared on all sides.

Every felloe good, and bent to true circles on iron forms with brass straps to prevent discoloration.

Broad Tread Truck Felloes are packed one piece to the bundle regular.

ALL PRICES SUBJECT TO DISCOUNT.

Hubs, Oak, Wagon, cupped—

	Per set.		Per set.
	6 x7 in.....\$1.20	8½x11 in.....\$1.70	
	6 x7½ "..... 1.20	9 x11 "..... 1.80	
	6 x8 "..... 1.20	9 x12 "..... 1.80	
	6½x8 "..... 1.20	9½x11 "..... 2.00	
6½x8½ in..... 1.20		9½x12 "..... 2.00	
7 x8 "..... 1.40		10 x12 "..... 2.25	
7 x8½ "..... 1.40		10½x12 "..... 2.50	
7 x9 "..... 1.40		11 x13 "..... 3.50	
7½x8½ "..... 1.40		11 x14 "..... 3.70	
7½x9 "..... 1.40		11 x15 "..... 3.90	
8 x9 "..... 1.60		12 x14 "..... 4.00	
8 x10 "..... 1.60		12 x15 "..... 4.30	
8¼x10 "..... 1.65		12 x16 "..... 4.60	
8½x10 "..... 1.70			

Odd Hubs, 5 cents each extra.

Hubs, Elm, Buggy, Select, painted ends—★

	4 in. diameter and smaller.....\$1.10 per set.
	4¼ to 5 in. diameter..... 1.25 "
	5¼ to 5¾ "..... 1.60 "
6 to 6½ in. diameter..... 1.90 "	
7 to 7½ in. "..... 2.40 "	
8 to 8½ in. "..... 3.00 "	

Odd Hubs, 5 cents each extra.

Hubs, Elm, Buggy, extra select—★

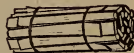
	XXX Select.	Extra Select.
4 in. diameter and smaller.....\$1.45		\$1.90 per set.
4¼ to 5 in. diameter..... 1.55		2.15 "
5¼ to 5¾ "..... 1.90		2.60 "
6 to 6½ "..... 2.40		3.10 "
7 to 7½ "..... 2.85		3.75 "
8 to 8½ "..... 3.60		4.50

Odd Hubs, 5 cents each extra.

ALL PRICES SUBJECT TO DISCOUNT.

Hubs, Elm, Hay Rake—

5¼ to 5¾ in. diameter.....	\$1.00 per pair.
6 to 6½ “ “	1.25 “
6¾ to 7½ “ “	1.55 “

Spokes, Oak, Wagon—

Prices, per set of 52 Spokes.

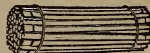
Sizes, inch.	Second Growth.	“A” Extra Select.	“B” Select.	“C”	“D”
1¾	\$4.60	\$3.60	\$2.90	\$2.00	\$1.60
1½	5.30	3.80	3.10	2.20	1.70
2	5.70	4.00	3.20	2.20	1.80
2½	6.00	4.20	3.40	2.30	1.80
2¼	6.30	4.40	3.60	2.40	1.90
2¾	6.60	4.60	3.80	2.50	2.00
2½	7.20	5.00	4.10	2.70	2.30
2¾	7.70	5.40	4.30	2.90	2.40
2¾	8.40	5.80	4.50	3.10	2.50
3	9.70	6.80	5.20	3.60	2.70
3¼	11.00	8.00	5.80	4.00	3.00
3½	12.50	9.00	6.30	4.40	3.30

Front bundles alone half the price of a full set.

Hind bundles alone half the price of a full set, with 10 per cent added.

California shape, large end, 75c. extra per set.

We have been extensive manufacturers of Wagon Spokes for many years. Our brands are always reliable, being “STANDARD FOR QUALITY.”

Spokes, Hickory, Buggy—

1¾ inch and smaller, 60 spokes to a set.

1½ inch and larger, 52 spokes to a set.

“A” Extra Select. “B” Select. “C”

1¼-inch and under	\$4.60	\$3.30	\$2.50 per set.
1¾ “	4.80	3.40	2.70 “
1½ “	5.50	3.90	3.00 “
1⅝ “	6.00	4.30	3.30 “
1¾ “	6.30	4.50	3.50 “
1⅞ “	7.10	5.10	3.90 “
2 “	7.80	5.60	4.30 “

ALL PRICES SUBJECT TO DISCOUNT.

SARVEN, WARNER, AND KENNEY SHELL BAND WHEELS. *

SPOKE.	HUB. (Sarven.)		RIM.		MAXIMUM HEIGHT.		PRICE PER SET.					
	No. of Flange.	Size.	Diam.	Length	Tread.	Depth	Front.	Rear.	A	B	C	D
01	1	1 $\frac{1}{2}$	2 $\frac{1}{2}$	6 $\frac{1}{2}$	3 $\frac{3}{4}$	1 $\frac{1}{8}$	4 ft	4 ft	\$18 75	\$14 75	\$11 25	\$8 75
0	1	1 $\frac{1}{8}$	3	6 $\frac{1}{2}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	4 ft	4 ft	19 00	15 00	11 50	9 00
1	1	1 $\frac{1}{8}$	3 $\frac{1}{8}$	6 $\frac{1}{2}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	4 ft	4 ft	19 25	15 25	11 75	9 25
3	1	1 $\frac{1}{8}$	3 $\frac{1}{8}$	6 $\frac{1}{2}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	4 ft	4 ft	19 50	15 50	12 00	9 50
7	1	1 $\frac{1}{8}$	3 $\frac{1}{8}$	6 $\frac{1}{2}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	4 ft	4 ft	21 75	16 75	13 25	10 75
9	1	1 $\frac{1}{8}$	3 $\frac{1}{8}$	7 $\frac{1}{2}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	4 ft	4 ft	22 00	17 00	13 50	11 00
13	1	1 $\frac{1}{8}$	3 $\frac{1}{8}$	7 $\frac{1}{2}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	4 ft	4 ft	25 00	20 00	16 00	13 00

THE MAXIMUM HEIGHT OF WHEELS, with 1 $\frac{3}{8}$ inch spoke and under, in sets, 4 ft. and 4 ft. 4 in.; in pairs, 4 ft. 2 in.; for all wheels ordered in excess of the maximum height, a charge will be made of 5 per cent. additional to the above list FOR EACH INCH OR FRACTION THEREOF, up to and including 4 ft. 4 in.

\$1.50 per set added to the list on all Sarven Wheels when ordered with eighteen spokes.

Single Wheels, 1 $\frac{3}{8}$ in. spoke and less, 25 cents net extra.

Single Wheels, 1 7-16 in. spoke and heavier, 50 cents net extra.

The size of point bands of Sarven Wheels made with F7 and F8 flanges is fixed by the malleable castings and can not be varied. We give sizes below for Sarven Hubs with F5 and F6 flanges:

Flange No.	01	0	1	3	7	9	13
Diameter of Point Band.....	2 $\frac{1}{8}$	2 $\frac{1}{4}$	2 $\frac{3}{8}$	2 $\frac{1}{2}$	2 $\frac{5}{8}$	2 $\frac{3}{4}$	3 inch.

ALL PRICES SUBJECT TO DISCOUNT.

ALL PRICES SUBJECT TO DISCOUNT.

HEAVY SARVEN AND WARNER WHEELS. *

SPOKE.	HUB.		RIM.		MAXIMUM HEIGHT.		PRICE PER SET.			
No. of Flange.	Diam.	Length	Tread.	Depth	Front.	Rear.	A	B	C	D
17	4½	7½	1 7⁄16	1 5⁄8	4 ft	4 ft 8 in	\$28 00	\$23 00	\$19 00	\$15 50
21	4 1⁄8	7½ & 8	1 11⁄16	1 11⁄16	4 ft	4 ft 8 in	29 50	24 50	21 00	18 00
25	4 5⁄8	8 & 8½	1 1 9⁄16	1 1 9⁄16	4 ft	4 ft 8 in	32 00	28 00	23 00	20 00
33	5	8½ & 9	1 1 3⁄8	1 1 3⁄8	4 ft	4 ft 8 in	34 50	30 00	25 00	22 00
39	5 5⁄8	8½ & 9	1 1 3⁄8	1 1 3⁄8	4 ft	4 ft 8 in	42 00	38 00	34 00	.....
45	6	9 to 11	1 1 3⁄8	2 1 1⁄2	4 ft	4 ft 8 in	45 50	42 00	38 00	.....
49	6 3⁄8	10 to 11	2	2 1 1⁄2	4 ft	4 ft 8 in	50 00	44 00	40 00	.....
51	6 3⁄8	10 to 11	2 1 1⁄2	2 1 1⁄2	4 ft	4 ft 8 in	55 00	46 00	42 00	.....
57	6 3⁄8	10 to 11	2 1 1⁄2	2 1 1⁄2	4 ft	4 ft 8 in	60 00	52 00	45 00	.....
63	7	11 to 12	2 2 1⁄2	3	4 ft	4 ft 8 in	65 00	58 50	.....	.....
71	7 1⁄4	11 to 13	2 2 1⁄2	3 1⁄2	4 ft	4 ft 8 in	71 50	65 00	.....	.....
73	7 1⁄4	11 to 13	2 2 1⁄2	3 1⁄2	4 ft	4 ft 8 in	78 00	71 50	.....	.....
79	7 1⁄2	12 to 14	2 2 1⁄2	3 1⁄2	4 ft	4 ft 8 in	84 50	78 00	.....	.....
85	8 1⁄4	12 to 14	2 2 1⁄2	3 1⁄2	4 ft	4 ft 8 in	92 00	.....	.....	.....
95	9	12 to 16	3	3 1⁄2	4 ft	4 ft 8 in	100 00	.....	.....	.....
105	9	12 to 16	3 1⁄2	3 1⁄2	4 ft	4 ft 8 in	110 00	.....	.....	.....

THE MAXIMUM HEIGHT OF WHEELS, with 1 1⁄2 inch spoke and over, in sets, 4 ft., and 4 ft. 8 in.; in pairs, 4 ft 4 in.; for all wheels ordered in excess of the maximum height, a charge will be made of 5 per cent. additional to the above list FOR EACH INCH OR FRACTION THEREOF, up to and including 5 ft. 2 in.

ALL PRICES SUBJECT TO DISCOUNT.

SARVEN HOSE CART WHEELS.

Made only in "A" grade. List price per pair the same as list price for Sarven Wagon wheels in sets of four.

COMPRESSED BAND AND WOOD HUB WHEELS. *

SPOKE.	HUB.		RIM.		MAXIMUM HEIGHT.		PRICE PER SET.					
	Diam.	Length.	Point Band	Tread.	Depth.	Front.	Rear.	A	B	C	D	
Size.												
$\frac{7}{8}$	$3\frac{1}{8}$	x	$6\frac{1}{2}$	$2\frac{1}{4}$	$\frac{5}{8}$ to $\frac{3}{4}$	$1\frac{1}{8}$	4 ft	4 ft 4	\$19 75	\$15 75	\$12 25	\$ 9 75
$1\frac{1}{8}$	$3\frac{3}{8}$	x	$6\frac{1}{2}$	$2\frac{3}{8}$	$\frac{3}{4}$	$1\frac{1}{8}$	4 ft	4 ft 4	19 75	15 75	12 25	9 75
1	$3\frac{1}{2}$	x	$6\frac{1}{2}$	$2\frac{3}{8}$	$\frac{7}{8}$	$1\frac{1}{8}$	4 ft	4 ft 4	20 00	16 00	12 50	10 00
$1\frac{1}{8}$	$3\frac{3}{4}$	x	$6\frac{1}{2}$	$2\frac{3}{8}$	1	$1\frac{1}{8}$	4 ft	4 ft 4	20 25	16 25	12 75	10 25
$1\frac{1}{4}$	$3\frac{3}{4}$	x	$6\frac{1}{2}$	$2\frac{3}{8}$		$1\frac{1}{4}$	4 ft	4 ft 4	20 50	16 50	13 00	10 50
$1\frac{3}{8}$	4	x $6\frac{1}{2}$ or 7	$2\frac{7}{8}$	1 to $1\frac{1}{8}$	$1\frac{1}{8}$ to $1\frac{3}{8}$	4 ft	4 ft 4	23 00	18 00	14 50	12 00	
$1\frac{1}{2}$	$4\frac{1}{4}$	x $6\frac{1}{2}$ or 7	$3\frac{1}{8}$	$1\frac{1}{8}$ to $1\frac{1}{4}$	$1\frac{3}{8}$ to $1\frac{1}{2}$	4 ft	4 ft 4	23 00	18 00	14 50	12 00	
$1\frac{3}{4}$	$4\frac{1}{2}$	x 7	$3\frac{3}{8}$	$1\frac{1}{4}$ to $1\frac{3}{8}$	$1\frac{3}{8}$ to $1\frac{5}{8}$	4 ft	4 ft 4	26 00	21 00	17 00	14 00	

List on Compressed Band and Wood Hub Wheels above $1\frac{3}{8}$ in. spoke to be \$2.00 per set above Sarven list for same size of spoke. Same additional charge for extra height as in Sarven.

SINGLE WHEELS $1\frac{3}{8}$ IN. SPOKES AND LESS, 25 CENTS NET EXTRA.

ALL PRICES SUBJECT TO DISCOUNT.

Sulky Wheels—★

Sarven, Compressed Band, Wood Hub, or Kenney Shell Band.

	Maximum Height.		Price per pair.		
			A	B	C
1½ in. spoke and under.....	4 ft. 5 in. to 5 ft.		\$15.00	\$12.00	\$11.00
1¾ in. " ".....	4 ft. 5 in. to 5 ft.		16.00	13.00	11.50
1¾ in. " ".....	4 ft. 5 in. to 5 ft.		18.00	14.00	12.50

Single wheels 25c. net extra.

EXTRA CHARGES.

Applying to Sarven, Compressed Band, Wood Hub and Shell Band Wheels.

All wheels ordered with a width or depth of rim exceeding sizes given in list, an additional charge will be made of two per cent. per set for *each one-fourth inch or fraction thereof*.

Excepting that in ordering, the proportions of rim on all wheels may be changed so that the depth of rim may read width of tire, and the width of tire may read depth of rim.

Plain Malleable Point Bands, on wheels 1¾ inch spoke and under, fifty cents additional to list price will be added excepting on Sarven Wheels having an Extension Point Band, for which no extra charge will be made.

All extra charges subject to same discount as on wheels.

Single Wheels, 1¾ in. spoke and less 25c. net extra.

Single Wheels, 17-16 in. spoke and heavier, 50c. net extra.

Sarven Wheels kept in stock only with F. 8 and F. 11 flanges.

PERFECT STEP OR RIBBON FLANGES.

No. 13 and smaller.....	\$0.30 per set.
" 17 to 33.....	0.50 "
" 39 " 105.....	1.00 "



Flange 8.

Flange 11.

F. 8. Solid front flange forming point band. Back flange to back end of hub forming a sand band.

F. 11. Solid front flange, corrugated, forming point band and step. Back flange to end of hub, forming a sand band.

Screws or Rivets, Inserted in Rims—★

		With Screws.	With Rivets.
		\$0.60	\$0.75 per set.
All wheels 1½ in. tread and under.....			
" 1¾ in. tread.....		.75	1.00 "
" 1¾ in. ".....		1.00	1.25 "
" 1¾ and 1¾ in. ".....		1.25	1.75 "
" 1¾, 1¾ and 2 in. ".....		1.50	2.00 "
" 2¾ and 2¾ in. ".....		2.00	2.50 "
" 2¾ in. ".....		2.50	3.00 "
" 2¾ to 3 in. ".....		3.00	3.50 "
" 3¼ to 3½ in. ".....		3.50	4.00 "
" 3¾ to 4 in. ".....		4.00	4.50 "

ALL PRICES SUBJECT TO DISCOUNT.

Tiring Wheels—*

Round edge steel tire. Bolted between spokes. Price per set.

$\frac{3}{4}$ x3-16 in.....	\$3.25	$1\frac{1}{8}$ x $\frac{1}{4}$ in.....	\$4.65
$\frac{3}{4}$ x $\frac{1}{4}$ in.....	3 50	$1\frac{1}{8}$ x5-16 in.....	5.50
$\frac{7}{8}$ x3-16 in.....	3.50	$1\frac{1}{4}$ x5-16 in.....	6.30
$\frac{7}{8}$ x $\frac{1}{4}$ in.....	3.75	$1\frac{1}{4}$ x $\frac{3}{8}$ in.....	6.90
1 x3-16 in.....	3.75	$1\frac{3}{8}$ x $\frac{3}{8}$ in.....	9.50
1 x $\frac{1}{4}$ in.....	4.00		

Round edge steel or square edge iron tire. Without tire bolts. Price per set.

$1\frac{1}{2}$ x $\frac{1}{2}$ in.....	\$12.75	$2\frac{1}{4}$ x $\frac{3}{4}$ in.....	\$31.50
$1\frac{1}{2}$ x9-16 in.....	14.25	$2\frac{1}{2}$ x $\frac{1}{2}$ in.....	25.75
$1\frac{5}{8}$ x $\frac{5}{8}$ in.....	18.50	$2\frac{1}{2}$ x $\frac{3}{4}$ in.....	34.25
$1\frac{3}{4}$ x $\frac{3}{4}$ in.....	24.50	$2\frac{3}{4}$ x $\frac{1}{2}$ in.....	29.25
2 x $\frac{1}{2}$ in.....	20.50	$2\frac{3}{4}$ x $\frac{3}{4}$ in.....	38.75
2 x $\frac{3}{4}$ in.....	27.25	3 x $\frac{1}{2}$ in.....	31.75
$2\frac{1}{4}$ x $\frac{1}{2}$ in.....	23.75	3 x $\frac{3}{4}$ in.....	42.25

Price of wheels not included in above.

Tired wheels oiled or primed in lead, when so ordered.

For tiring wheels higher than 4 feet 2 inches, a charge of fifteen per cent. will be added to the above list for each additional inch.

Sarven Wheels Ready Tired—

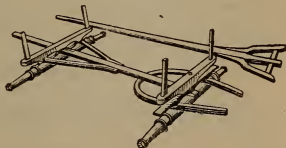
We carry in stock the following sizes in "C" and "D" grades; others can be quickly furnished to order.

Flange No.	Spoke.	Hub length.	Front.	Height. Hind.	Tire.
1	1 1-16 in.	6 $\frac{1}{2}$ in.	3 ft. 2 in.	3 ft. 6 in.	$\frac{7}{8}$ x3-16 in.
			3 ft. 4 in.	3 ft. 8 in.	
3	1 $\frac{1}{8}$ in.	6 $\frac{1}{2}$ in.	3 ft. 6 in.	3 ft. 10 in. and 4 ft.	
9	$\frac{1}{4}$ in.	7 in.	Same as above.	1x $\frac{1}{4}$ in.	
			3 ft. 4 in.	3 ft. 8 in.	$1\frac{1}{8}$ x5-16 in.
			3 ft. 6 in.	3 ft. 10 in.	
13	1 $\frac{3}{8}$ in.	7 in.	3 ft. 8 in.	4 ft.	
			Same as above.		$1\frac{1}{4}$ x $\frac{3}{8}$ in.

See lists of "SARVEN WHEELS" pages 295 to 298, and "TIRING WHEELS" see above.

Wagon Gears Complete—

Finished, ready to
iron, with Axles
fitted for D. V.
Skeins. Skeins not
furnished unless
ordered.

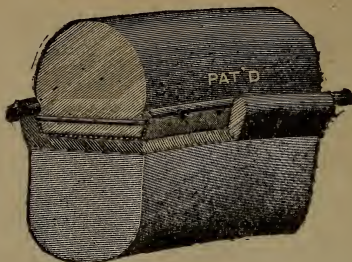


$2\frac{1}{4}$ in.....	\$12.84	$3\frac{3}{4}$ in.....	\$16.00
$2\frac{3}{4}$ ".....	12.84	4 ".....	20.00
3 ".....	13.68	$4\frac{1}{2}$ ".....	20.00
$3\frac{1}{4}$ ".....	13.68	$4\frac{3}{4}$ ".....	22.80
$3\frac{1}{2}$ ".....	15.00		

All narrow track, 4 ft. 6 in., center to center of tire, unless otherwise ordered. Can furnish any width of track desired.

ALL PRICES SUBJECT TO DISCOUNT.

RUBBER TIRES.



Firestone Side-Wire Tires.

S. D. KIMBARK CO. (General Sales Agents).

We recommend this tire as superior to any upon the market. It is made from the best quality rubber known for the purpose. It is constructed with steel cross bars inserted laterally at regular intervals near the inner edge vulcanized in the rubber, being an actual part thereof. Is retained in the channel by two steel wires made into hasps and sprung over edge of channel, these resting on shoulder formed by cross bars hold the tire perfectly solid with even compression.

The tire is *absolutely solid*. No internal wires or cavities to cut out and destroy the rubber.

We furnish complete plants for applying the "FIRESTONE SIDE-WIRE TIRE" and furnish the rubber tires, channels, wires, etc., in bulk or will apply to wheels bought from or sent to us.

During the past two years we have sold the *Firestone Outside Wire Rubber Tires* all over the United States and believe that the principle involved in these tires and the method of application is superior to any Internal Wire Tire on the market, wearing longer than any internal wire tire and giving better general satisfaction.

FIRESTONE INTERNAL WIRE RUBBER TIRES.

To those, who, for any reason, prefer the old style internal wire rubber tires we are prepared to furnish this style made of superior quality rubber at prices to meet competition.

WE MAKE SEASON CONTRACTS, furnishing *Machines* for applying either the Outside or Internal Wire Rubber Tires, supplying *tire, channels, wires, etc.* If interested in rubber tires do not fail to correspond with us before making contracts.

S. D. KIMBARK CO., General Sales Agents.

Firestone Side Wire or Internal Wire Rubber Tires—★

These prices include the Steel Channels and Rubber Tires put on wheels furnished by customers and the transportation charge one way when wheels are shipped to us.

Price list—Tires set. Not including wheels.

For set of 4 wheels.	TWO WHEELS	
	Under 4 ft. 3 in. high.	Over 4 ft. 3 in. high
$\frac{3}{4}$ in. tread..	\$ 35.00	\$ 21.00
$\frac{7}{8}$ in. " ..	40.00	24.00
1 in. " ..	45.00	27.00
$1\frac{1}{8}$ in. " ..	55.00	33.00
$1\frac{1}{4}$ in. " ..	65.00	40.00
$1\frac{3}{8}$ in. " ..	75.00	45.00
$1\frac{1}{2}$ in. " ..	85.00	55.00
$1\frac{3}{4}$ in. " ..	100.00	65.00
$1\frac{7}{8}$ in. " ..	110.00	70.00
2 in. " ..	135.00	85.00
		90.00

Special discounts from above list upon request.

For prices of $2\frac{1}{4}$, 3, $3\frac{1}{2}$ and 4 in. Rubber Tires, see page 303.

Price list for re-rubbering Old Channel Rims.

For set. of 4 wheels.	TWO WHEELS	
	Under 4 ft. 3 in. high.	Over 4 ft. 3 in. high.
$\frac{3}{4}$ in. tread..	\$ 26.00	\$ 16.00
$\frac{7}{8}$ in. " ..	30.00	18.00
1 in. " ..	33.00	20.00
$1\frac{1}{8}$ in. " ..	41.00	25.00
$1\frac{1}{4}$ in. " ..	48.00	30.00
$1\frac{3}{8}$ in. " ..	56.00	33.00
$1\frac{1}{2}$ in. " ..	64.00	41.00
$1\frac{3}{4}$ in. " ..	75.00	48.00
$1\frac{7}{8}$ in. " ..	82.00	53.00
2 in. " ..	100.00	64.00
		67.00

We are prepared to furnish all sizes **STEEL CHANNELS,**
RUBBER TIRES AND WIRE, also

COMPLETE OUTFITS FOR APPLYING

FIRESTONE SIDE WIRE TIRES

and will mail catalogue and quote prices upon receipt of
inquiry.

ALL PRICES SUBJECT TO DISCOUNT.

FIRESTONE SIDE WIRE AUTOMOBILE RUBBER TIRES.

**We are prepared to apply here
FIRESTONE AUTOMOBILE RUBBER TIRES,
2½, 3, 3½, 4, 5 and 6 inches diameter, inclusive.**

The List Prices on the following page include

STEEL CHANNELS AND RUBBER TIRES

applied to **One Wheel.**

Wheels to be furnished by customers, and transportation one way to be paid by us.

S. D. KIMBARK CO., GENERAL SALES AGENTS.

SOLE AGENTS for Illinois, Indiana, Michigan, Wisconsin, Iowa, Minnesota, North Dakota, South Dakota.

See List Prices on following page.

FIRESTONE SIDE WIRE**AUTOMOBILE RUBBER TIRES.*****Including Channels.**

Applied to ONE WHEEL, not including wheel.

	2½ in.	3 in.	3½ in.	4 in.
23 in.	\$32.00	\$45.00	\$58.00	\$72.00
24 in.	33.50	45.00	58.00	72.00
25 in.	35.00	48.00	62.00	78.00
26 in.	35.50	48.00	64.00	80.00
27 in.	36.00	52.00	66.00	82.00
28 in.	37.50	53.00	68.00	85.00
29 in.	39.00	53.00	70.00	88.00
30 in.	39.50	55.00	72.00	90.00
31 in.	40.00	58.00	76.00	95.00
32 in.	41.50	60.00	80.00	100.00
33 in.	43.00	61.00	82.00	102.00
34 in.	44.00	62.50	84.00	104.00
35 in.	45.50	64.00	86.00	106.00
36 in.	47.50	65.50	88.00	110.00
37 in.	48.00	67.50	90.00	112.00
38 in.	49.00	69.00	92.00	115.00
39 in.	49.50	71.00	94.00	117.00
40 in.	50.00	71.50	94.50	119.00
41 in.	50.50	72.00	95.00	120.00
42 in.	51.00	73.00	96.00	121.00
43 in.	52.00	74.50	98.00	123.50
44 in.	53.00	75.50	100.00	125.00
45 in.	54.00	77.50	102.00	128.00
46 in.	54.50	79.50	104.00	130.00
47 in.	56.00	81.00	106.00	132.00
48 in.	57.00	82.00	108.00	135.00
49 in.	58.50	83.00	110.00	138.00
50 in.	59.50	84.00	112.00	141.00
51 in.	60.00	84.50	112.50	141.50
52 in.	60.50	85.00	114.00	142.00
53 in.	61.00	86.00	115.00	143.00
54 in.	62.50	87.50	116.00	144.00
55 in.	63.00	89.00	118.00	146.00
56 in.	64.00	90.00	120.00	150.00
57 in.	65.00	91.00	122.00	152.50
58 in.	66.00	92.50	123.50	155.00
59 in.	67.00	94.00	125.00	157.50
60 in.	68.00	96.00	128.00	160.00

Special prices on 5 in., 6 in. and larger tires quoted upon application.

Special discount from above list upon request.

ALL PRICES SUBJECT TO DISCOUNT.

COMPLETE OUTFITS
for applying
FIRESTONE SIDE WIRE TIRES
OR
INTERNAL WIRE TIRES.

Rubber Tires of either style in bulk or
cut to any length.

STEEL CHANNEL, WIRES, ETC.

Apply your own
RUBBER TIRES.

THE WORK IS SIMPLE.
THE PROFIT LIBERAL.

Write us for particulars

S. D. KIMBARK CO.,
GENERAL SALES AGENTS.

Wood Hub Wheels—

For farm Wagons. Made especially for our trade.

Our wheels are all made of carefully selected stock, thoroughly seasoned and nicely finished.



Price per set.

Hub.		Spokes.	Rim.		Grade.	
Diam.	Length.		Tread.	Depth.	A.	B.
7 in.	8 in.	15 $\frac{1}{2}$ in.	1 $\frac{1}{2}$ in.	1 $\frac{3}{4}$ in.	\$14.80	\$13.20
7 "	8 $\frac{1}{2}$ "	15 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	14.80	13.20
7 "	9 "	15 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	14.80	13.20
7 $\frac{1}{2}$ "	8 $\frac{1}{2}$ "	13 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	14.80	13.20
7 $\frac{1}{2}$ "	9 "	13 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	14.80	13.20
8 "	9 "	21 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	2 "	16.00	14.40
8 "	10 "	21 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	2 "	16.00	14.40
8 $\frac{1}{4}$ "	10 "	21 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	2 "	16.00	14.40
8 $\frac{1}{2}$ "	11 "	23 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	2 $\frac{1}{4}$ "	16.80	15.20
9 "	12 "	23 $\frac{1}{2}$ "	2 "	2 $\frac{1}{2}$ "	18.40	16.80
9 $\frac{1}{2}$ "	11 "	21 $\frac{1}{2}$ "	2 "	2 $\frac{1}{2}$ "	18.40	16.80
9 $\frac{1}{2}$ "	12 "	21 $\frac{1}{2}$ "	2 "	2 $\frac{1}{2}$ "	20.00	18.40
10 "	11 "	25 $\frac{1}{2}$ "	2 "	2 $\frac{1}{2}$ "	22.40	20.80
10 "	12 "	23 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	28.80	27.20

Height of front wheels, 3 ft. to 3 ft. 8 in.

" " hind " 3 ft. 8 in. to 4 ft. 6 in.

For all wheels ordered with tread exceeding sizes given in list, the additional charge will be 20c. per set for each $\frac{1}{4}$ in. increased width of tread. Truck wheels 3 ft.-3 $\frac{1}{2}$ ft. high, are 35c. net less per set on above list.

Wood Hub Oak Cart Wheels—

Price per pair.

Hub.		Spokes.	Rim.		Grade.
Diam.	Length.		Tread.	Depth.	
10 in.	12 in.	23 $\frac{1}{4}$ in.	2 $\frac{1}{2}$ in.	2 $\frac{1}{2}$ in.	\$18.75
10 $\frac{1}{2}$ "	12 "	3 "	2 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	19.50
11 "	13 "	3 "	3 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	21.00
12 "	13 "	3 "	3 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	27.00
12 "	14 "	3 $\frac{1}{4}$ "	3 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	30.00

**Prices for Setting Tires, Boxing and Banding
Hubs on Different Sizes of Wood
Hub Wheels—★**

Setting and bolting all sizes from 1x3-16 in. to 1 $\frac{1}{2}$ x $\frac{1}{2}$ in.	\$5.12
Setting all sizes 1 $\frac{1}{2}$ x $\frac{1}{2}$ to 1 $\frac{3}{4}$ x $\frac{3}{4}$ in.	5.84
Bolting all sizes 1 $\frac{1}{2}$ x $\frac{1}{2}$ to 1 $\frac{3}{4}$ x $\frac{3}{4}$ in.	1.92
Setting all sizes 2x $\frac{3}{4}$ to 3x $\frac{1}{2}$ in.	6.40
Bolting all sizes 2x $\frac{3}{4}$ to 3x $\frac{1}{2}$ in.	2.00
Setting only 3x $\frac{3}{4}$ in.	7.12
Setting only 4x $\frac{1}{2}$ in.	7.44
Setting only 4x $\frac{3}{4}$ in.	9.12

(To the above list add cost of Tires.)

For banding hubs, 24c. per inch, figuring diameter of hub per set.

For boring hubs only, 13 $\frac{1}{2}$ c. per inch, figuring length of hubs per set.

Boring hubs and setting boxes, 17 $\frac{1}{2}$ c. per inch, figuring lengths of box per set.

ALL PRICES SUBJECT TO DISCOUNT.

Wagon Singletrees, Round—

Price per dozen.



Size.	Select Forest.	Black Hickory.	Mixed 2d Gro.	All White 2d Gro.
2 1/4 x 36 in.	\$2.10	\$2.80	\$4.00	\$5.50
2 1/2 x 36 in.	2.20	2.90	4.10	5.60
2 3/4 x 36 and 38 in.	2.50	3.20	4.40	5.90
2 3/4 x 40 in.	2.80	3.50	4.70	6.20
3 x 36 and 38 in.	4.50	5.20	6.40	7.90
3 x 40 in.	4.75	5.45	6.65	8.15

Wagon Singletrees, Oval—

Price per dozen.



Size.	Select Forest.	Black Hickory.	Mixed 2d. Gro.	All White 2d. Gro.
2 1/4 x 36 in.	\$1.50	\$2.30	\$3.50	\$5.00
2 1/2 x 36 in.	1.70	2.50	3.70	5.20
2 5/8 x 36 in.	1.80	2.60	3.80	5.30
2 3/4 x 36 in.	2.00	2.80	4.00	5.50
2 3/4 x 38 in.	2.20	3.00	4.20	5.70
2 3/4 x 40 in.	2.45	3.30	4.65	6.30
3 x 36 and 38 in.	3.50	4.30	5.50	7.00
3 x 40 in.	4.00	4.80	6.00	7.50

Ends chucked for ferrule, add to list 20c. per doz.

Ironed Wagon Singletrees, Oval—

No. 210.



No. 220.

No. 210, 2 1/4 x 36 in. Hooks and Ferrules.....\$5.50 per doz.
 " 220, 2 1/2 x 36 " Straps and Hooks..... 6.50 "

Square Center Express Singletrees—

(With Square or Round Ends.)



Price per dozen.

Size.	Select Forest.	Black Hickory.	Mixed 2d. Gro.	All White 2d. Gro.
2 1/4 x 38 in.	\$3.30	\$3.90	\$4.90	\$5.90
2 1/2 x 38 in.	4.10	4.70	5.70	6.70
2 3/4 x 38 in.	4.40	5.00	6.10	7.25

Buggy and Express Singletrees—

Price per dozen.



Size.	Select Forest.	Black Hickory.	Mixed 2d. Gro.	All White 2d. Gro.
1 1/2 to 2 x 36 to 40 in.	\$1.80	\$2.40	\$3.40	\$4.40
2 1/4 x 40 in.	2.10	2.70	3.70	4.70
2 1/2 x 40 in.	2.30	2.90	3.90	4.90
2 3/4 x 40 in.	3.10	3.70	4.70	5.90

ALL PRICES SUBJECT TO DISCOUNT.

Flat End (Sword) Singletrees— Price per dozen.

Size.	Select Forest.	Black Hickory.	Mixed 2d. Gro.	All White 2d. Gro.
1½ to 2x38 and 40 in.....	\$2.00	\$2.60	\$3.60	\$4.60
1½ to 2x42 in.....	2.50	3.10	4.10	5.10
1½ to 2x44 ".....	3.00	3.60	4.60	5.60

Plow Singletrees—

	26	28	30	32 inch.
2¼ inch. Select Forest.....	\$0.80	.90	1.00	1.20 per doz.

Ironed Plow Singletrees—

No.	Length.	End Clip.	Hook.	Center Clip.	Ring.	Price per dozen.
501	26 in.	5-16 in.	9-32 in.	7-16 in.	.....	\$2.00
502	28 "	5-16 "	9-32 "	7-16 "	.....	2.20
503	30 "	5-16 "	9-32 "	7-16 "	.....	2.20
511	28 "	¾ "	5-16 "	¾ "	7-16 in.	3.00
512	30 "	¾ "	5-16 "	¾ "	7-16 "	3.10
530	26 " 1½ in. Ferrules	5-16 "	5-16 "	7-16 "	¾ "	3.80
531	28 " 1½ "	"	5-16 "	7-16 "	¾ "	3.90
532	30 " 1½ "	"	5-16 "	7-16 "	¾ "	4.00

With Twisted Center Clip, no Ring, same prices.

Wagon Neckyokes—

Price per dozen.

Size.	Select Forest.	Black Hickory.	Mixed 2d Gro.	All White 2d Gro.
2¼x38 in.....	\$2.30	\$3.00	\$4.20	\$5.70
2¼x38 in.....	2.40	3.10	4.30	5.80
2¼x40 ".....	2.50	3.20	4.45	5.95
2¾x38 and 40 in.....	2.90	3.60	4.90	6.40
2¾x42 in.....	3.60	4.30	5.50	7.00
2¾x44 ".....	4.20	4.90	6.10	7.60
3 x48 ".....	6.25	7.00	8.20	9.70

Ironed Wagon Neckyokes—

No. 200.	2½x38 in.....	\$7.50 per dozen.
" 201.	2½x40 in.....	7.70 "
" 203.	2¾x42 in.....	8.50 "
" 205.	3 x48 in.....	12.00 "

Buggy and Express Neckyokes—

Price per dozen.



Size.	Select Forest.	Black Hickory.	Mixed 2d Gro.	All White 2d Gro.
1½ to 2 x42 in.....	\$3.20	\$4.00	\$5.00	\$6.50
2¼x42 ".....	3.70	4.50	5.50	7.50
1½ to 2 x48 ".....	4.20	5.00	6.00	8.00
2¼x48 ".....	4.70	5.50	6.50	8.50

ALL PRICES SUBJECT TO DISCOUNT.

TRIMMED BUGGY NECKYOKE

Acorn Tips. In the White

STAR, with solid leather center, re-enforced with a steel band around the yoke-stick.



1½, 1⅝, 1¾, 1⅞ in.	43 in. long.....	\$ 9.00 per doz.
2, 2⅛ in.	43 " "	9.80 " "
2¼ in.	43 " "	14.40 " "

If wanted painted add to list \$1.40.

ACME, with leather drop, steel band around the yoke-stick, covered with leather.



1½, 1⅝, 1¾, 1⅞ in.	43 in. long.....	\$ 4.80 per doz.
2, 2⅛ in.	43 " "	5.20 " "
2¼ in.	43 " "	9.80 " "

If wanted painted add to list \$1.40.

STANDARD, same as Acme except the steel band encircling the yoke-stick is not covered with leather.

1½, 1⅝, 1¾, 1⅞ in.	43 in. long	\$4.30 per doz.
2, 2⅛ in.	43 " "	4.70 " "
2¼ in.	43 " "	5.30 " "

If wanted painted add to list \$1.40.

PEARSON'S, double swivel, all metal. See page 239.



1½, 1⅝, 1¾ in.	42 in. long.....	\$11.40 per doz
1⅞ in.	46 " "	11.80 " "
2⅛ in.	46 " "	12.20 " "

If wanted painted add to list \$1.00.

ALL PRICES SUBJECT TO DISCOUNT.

EVENERS.**Buggy and Express
Eveners—**

	Select Forest.	Black Hickory.	Mixed 2d growth	All white 2d growth.
2¼ to 2½ x 48 in.	\$3.40	\$4.20	\$5.30	\$6.50 per doz.
2¾ x 48 in.	4.00	4.80	5.90	7.50 "
3 x 48 in.	4.20	5.00	6.20	7.50 "

Wagon Eveners—

	Select Forest.	Black Hickory.	Mixed 2d growth.
2 x 4 x 48 in.	\$4.80	\$5.80	\$6.30 per dozen.
2 x 4½ x 48 in.	5.30	6.30	7.80 "
2¼ x 4½ x 48 in.	5.90	7.00	9.50 "
2¼ x 4½ x 54 in.	6.50	7.50	10.50 "
2¼ x 5 x 48 in.	6.50	7.50	10.50 "
2¼ x 5 x 54 in.	7.30	8.30	10.80 "
2½ x 5 x 48 in.	7.20	8.20	10.00 "
2½ x 5 x 54 in.	8.10	9.30	12.00 "
2½ x 6 x 54 in.	10.50	....	.....

Plow Eveners—

1¾ x 2½ x 42 in. Select Forest.....\$3.00 per dozen.

Three-horse Eveners—

2x4½x60 in.....\$9.00 per doz.

Four-horse Eveners—

2x5x72 in.....\$12.00 per doz.
2¼x6x72 in.....15.00 " "

Ironed Wagon Eveners—

2x4x48 in. Ironed with top and bottom plates and
rivets through the ends.....\$7.00 per doz.
No. 275. Ironed as above, with clevises added,
without eye bolts.....10.50 " "

ALL PRICES SUBJECT TO DISCOUNT.

Bent Heel Buggy Shafts—*

Price per dozen pairs. One-half doz. pairs in a bundle.

	Rough.	XX	XXX	Black Hickory.	Second Growth.
1 $\frac{3}{8}$ x1 $\frac{7}{8}$ in..... }		\$6.00	\$7.50	\$10.50	\$20.00
1 $\frac{3}{8}$ x2 in..... }					
1 $\frac{1}{2}$ x2 in..... }		7.00	8.50	11.50	22.00
1 $\frac{1}{2}$ x2 $\frac{1}{4}$ in..... }		8.00	9.50	13.00	24.00
1 $\frac{5}{8}$ x2 $\frac{1}{4}$ in..... }		9.50	11.50	15.50	26.00

Half finished. Without bar. Finished to bar—

1 $\frac{3}{8}$ x1 $\frac{7}{8}$ in..... }	7.25	8.75	11.75	21.50
1 $\frac{3}{8}$ x2 in..... }				
1 $\frac{1}{2}$ x2 in..... }	8.25	9.75	12.75	23.50
1 $\frac{1}{2}$ x2 $\frac{1}{4}$ in..... }	9.25	10.75	14.25	25.50
1 $\frac{5}{8}$ x2 $\frac{1}{4}$ in..... }	10.75	12.75	16.75	27.50

Finished. With bar, mortise and tenon—

1 $\frac{3}{8}$ x1 $\frac{7}{8}$ in..... }	8.00	9.50	13.00	26.00
1 $\frac{3}{8}$ x2 in..... }				
1 $\frac{1}{2}$ x2 in..... }	9.00	10.50	14.50	28.00
1 $\frac{1}{2}$ x2 $\frac{1}{4}$ in..... }	10.00	12.00	16.50	30.00
1 $\frac{5}{8}$ x2 $\frac{1}{4}$ in..... }	12.00	14.25	18.75	32.00

Rough and half finished Cutter Shafts, same as Buggy Shafts.

Finished Cutter Shafts with one bar same as finished Buggy Shafts.

Finished Cutter Shafts, with two bars, add \$3.50 to list of finished Buggy Shafts.

Finished Shafts, driven and pinned ready to iron, \$1.00 per dozen *net* advance.**Express Bend Shafts—***

Price per dozen pairs. One-third dozen pairs in a bundle.

	Rough.	XX	XXX	Black Hickory.
1 $\frac{3}{4}$ x2 $\frac{1}{4}$ in.....		\$11.00	\$12.50	\$16.50
1 $\frac{3}{4}$ x2 $\frac{1}{2}$ in.....		12.00	13.50	17.50
2 x2 $\frac{1}{4}$ in.....		12.00	13.50	17.50
2 x2 $\frac{1}{2}$ in.....		14.00	16.00	21.00
2 x2 $\frac{3}{4}$ in.....		15.50	18.00	23.00
2 x3 in.....		17.00	20.00	25.00

Half finished. Without bar. Finished to bar—

1 $\frac{3}{4}$ x2 $\frac{1}{4}$ in.....	12.50	14.00	18.00
1 $\frac{3}{4}$ x2 $\frac{1}{2}$ in.....	13.50	15.00	19.00
2 x2 $\frac{1}{4}$ in.....	13.50	15.00	19.00
2 x2 $\frac{1}{2}$ in.....	15.50	17.50	22.50
2 x2 $\frac{3}{4}$ in.....	17.00	19.50	24.50
2 x3 in.....	18.50	21.50	26.50

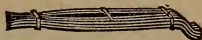
Finished. With bar, mortise and tenon—

1 $\frac{3}{4}$ x2 $\frac{1}{4}$ in.....	15.00	16.50	20.50
1 $\frac{3}{4}$ x2 $\frac{1}{2}$ in.....	16.00	17.50	21.50
2 x2 $\frac{1}{4}$ in.....	16.00	17.50	21.50
2 x2 $\frac{1}{2}$ in.....	18.00	20.00	25.00
2 x2 $\frac{3}{4}$ in.....	20.00	22.50	27.50
2 x3 in.....	22.00	25.00	30.00

Finished Shafts, driven and pinned, \$1.00 per doz. *net* advance.

ALL PRICES SUBJECT TO DISCOUNT.

Double Bend Buggy and Express Shafts—★



Price per dozen pairs.

Rough—	XX	XXX	Black Hickory.	Second Growth.
$1\frac{1}{2} \times 2$ in. and under }	\$11.00	\$12.50	\$15.50	\$26.00
$1\frac{1}{2} \times 2\frac{1}{4}$ in.	12.00	13.50	17.00	28.00
$1\frac{5}{8} \times 2\frac{1}{4}$ in.	13.50	15.50	19.50	30.00
$1\frac{3}{4} \times 2\frac{1}{4}$ in.	15.00	16.50	20.50	.....
$2 \times 2\frac{1}{2}$ in.	18.00	20.00	25.00	.....
$2 \times 2\frac{3}{4}$ in.	19.50	22.00	27.00	.....
2×3 in.	21.00	24.00	29.00	.....

Half finished. Without bar. Finished to bar

$1\frac{1}{2} \times 2$ in. and under }	12.25	13.75	16.75	27.50
$1\frac{1}{2} \times 2\frac{1}{4}$ in.	13.25	14.75	18.25	29.50
$1\frac{5}{8} \times 2\frac{1}{4}$ in.	14.75	16.75	20.75	31.50
$1\frac{3}{4} \times 2\frac{1}{4}$ in.	16.50	18.00	22.50	.....
$2 \times 2\frac{1}{2}$ in.	19.50	21.50	26.50	.....
$2 \times 2\frac{3}{4}$ in.	21.00	23.50	28.50	.....
2×3 in.	22.50	25.50	30.50	.....

Finished. With bar, mortise and tenon.

$1\frac{1}{2} \times 2$ in. and under }	13.00	14.50	18.50	32.00
$1\frac{1}{2} \times 2\frac{1}{4}$ in.	14.00	16.00	20.50	34.00
$1\frac{5}{8} \times 2\frac{1}{4}$ in.	16.00	18.25	22.75	36.00
$1\frac{3}{4} \times 2\frac{1}{4}$ in.	19.00	20.50	24.50	.....
$2 \times 2\frac{1}{2}$ in.	22.00	24.00	29.00	.....
$2 \times 2\frac{3}{4}$ in.	24.00	26.50	31.50	.....
2×3 in.	26.00	29.00	34.00	.....

Shafts, driven and pinned, \$1.00 per dozen *net* advance.

ALL PRICES SUBJECT TO DISCOUNT.

Wagonette Shafts—★

Length 9 feet 1 in. strip. Price per dozen pairs.

STRAIGHT HEEL OR BENT HEEL.

Rough.	XX	XXX	Black Hickory.	Second Growth.
$1\frac{1}{2} \times 2$ in. and under..... }	\$14.00	\$16.00	\$19.00	\$29.00
$1\frac{1}{2} \times 2\frac{1}{4}$ in.	15.00	17.00	20.50	31.00
$1\frac{5}{8} \times 2\frac{1}{4}$ in.	16.50	19.00	23.00	33.00
$1\frac{3}{4} \times 2\frac{1}{4}$ in.	19.00	20.50	24.50	.....
$1\frac{3}{4} \times 2\frac{1}{2}$ in.	20.00	22.50	26.50	.....

For Half-finished, add \$2.00 per dozen pairs to above list prices.

For Full-finished, with bars, add \$3.00 per dozen pairs, to above list prices.

For Double Bend Heel, add \$5.00 per dozen pairs to above list prices.

Finished Shafts, driven and pinned ready to iron, \$1.00 per dozen, net advance.

Dump Cart Shafts—

$2\frac{3}{4} \times 3\frac{1}{2} \times 10\frac{1}{2}$ ft., rough..... \$3.50 per pair.

Breaking Cart Shafts—

Black Hickory.

$1\frac{3}{4} \times 2\frac{1}{4}$ and $2 \times 2\frac{1}{2}$ in., 12 feet.

Rough, straight heel \$3.50 per pair.

Half-finished, straight heel..... 3.75

Add for single bent heel25

ALL PRICES SUBJECT TO DISCOUNT.

Cart Shafts—*

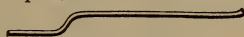
11 or 12 feet long.

Rough Straight Heel.		Black			
		XX	XXX	Hickory.	
$1\frac{1}{2} \times 2\frac{1}{4}$ in.	}	\$17.50	\$22.50	\$27.50	per doz. pairs.
$1\frac{5}{8} \times 2\frac{1}{4}$ in.					
$1\frac{3}{4} \times 2\frac{1}{4}$ in.		19.50	24.50	29.50	" "
$2 \times 2\frac{1}{2}$ in.		21.50	26.50	31.50	" "
$2 \times 2\frac{3}{4}$ in.		25.00	30.00	35.00	" "
2×3 in.		30.00	35.00	40.00	" "

For Half-finished, add \$2.00 per dozen pairs to above list prices.

For above with Coupe Points, add \$4.00 per dozen pairs to above list prices.

For above with Single Bend Heels, add \$2.00 per dozen pairs to above list prices.



No. 8.

Length, 11 feet, 9 inch rise. Price per dozen pairs.

Rough.		XX	XXX	Black Hickory.
$1\frac{5}{8} \times 2\frac{1}{4}$ in.	}	\$19.00	\$21.50	\$28.00
or under				
$1\frac{3}{4} \times 2\frac{1}{4}$ in.		22.50	25.00	30.00

For HALF-FINISHED add \$2.00 per dozen pairs, to above list prices.

FINISHED WITH BAR.

$1\frac{5}{8} \times 2\frac{1}{4}$ in.	\$23.00	\$25.50	\$32.00
--	---------	---------	---------



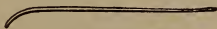
No. 14.

Coupe Points, Double Bend Heel.

Length 11 feet, 6 inches, $9\frac{1}{2}$ inch rise to heel.

Size $1\frac{5}{8} \times 2\frac{1}{4}$.

Best Forest.....	Rough.....	\$36.00	per doz. pairs.
" "	Half Finished..	40.00	" "



No. 18.

Length $9\frac{1}{2}$ feet.

Rough.		Black			
		XX	XXX	Hickory.	
$1\frac{5}{8} \times 2\frac{1}{8}$ in.	}	\$12.00	\$15.00	\$18.00	per doz. pairs.
$1\frac{5}{8} \times 2\frac{1}{4}$ in.					
$1\frac{3}{4} \times 2\frac{1}{4}$ in.		14.00	17.00	20.00	" "

For HALF-FINISHED add \$1.50 per dozen pairs to above list prices.

FINISHED.

$1\frac{5}{8} \times 2\frac{1}{8}$ in. ..	\$18.00	\$22.00	\$26.00	per doz. pairs.
---	---------	---------	---------	-----------------

ALL PRICES SUBJECT TO DISCOUNT.

Straight Heel and Platform Shafts—★

Price per dozen pairs.

Sizes under $1\frac{3}{4} \times 2\frac{1}{4}$ in. packed one-half dozen in
bundle; others one-third.

Rough—	XX	XXX	Black Hickory.	Second Growth.
$1\frac{3}{8} \times 1\frac{7}{8}$ in. }				
$1\frac{3}{8} \times 2$ in. }	\$ 5.50	\$ 7.00	\$10.00	\$19.50
$1\frac{1}{2} \times 2$ in.	6.50	8.00	11.00	21.50
$1\frac{1}{2} \times 2\frac{1}{4}$ in.	7.50	9.00	12.50	23.50
$1\frac{5}{8} \times 2\frac{1}{4}$ in.	9.00	11.00	15.00	25.50
$1\frac{3}{4} \times 2\frac{1}{4}$ in.	10.50	12.00	16.00	.....
$1\frac{3}{4} \times 2\frac{1}{2}$ in.	11.50	13.00	17.00	.....
$2 \times 2\frac{1}{4}$ in.	11.50	13.00	17.00	.....
$2 \times 2\frac{1}{2}$ in.	13.50	15.50	20.50	.....
$2 \times 2\frac{3}{4}$ in.	15.00	17.50	22.50	.....
2×3 in.	16.50	19.50	24.50	.....

Half finished. Without bar—

$1\frac{3}{8} \times 1\frac{7}{8}$ in. }				
$1\frac{3}{8} \times 2$ in. }	6.75	8.25	11.25	21.00
$1\frac{1}{2} \times 2$ in.	7.75	9.25	12.25	23.00
$1\frac{1}{2} \times 2\frac{1}{4}$ in.	8.75	10.25	13.75	25.00
$1\frac{5}{8} \times 2\frac{1}{4}$ in.	10.25	12.25	16.25	27.00
$1\frac{3}{4} \times 2\frac{1}{4}$ in.	12.00	13.50	17.50	.....
$1\frac{3}{4} \times 2\frac{1}{2}$ in.	13.00	14.50	18.50	.....
$2 \times 2\frac{1}{4}$ in.	13.00	14.50	18.50	.....
$2 \times 2\frac{1}{2}$ in.	15.00	17.00	22.00	.....
$2 \times 2\frac{3}{4}$ in.	16.50	19.00	24.00	.....
2×3 in.	18.00	21.00	26.00	.....

Finished. With bar—

$1\frac{3}{8} \times 1\frac{7}{8}$ in. }				
$1\frac{3}{8} \times 2$ in. }	7.50	9.00	12.50	25.50
$1\frac{1}{2} \times 2$ in.	8.50	10.00	14.00	27.50
$1\frac{1}{2} \times 2\frac{1}{4}$ in.	9.50	11.50	16.00	29.50
$1\frac{5}{8} \times 2\frac{1}{4}$ in.	11.50	13.75	18.25	31.50
$1\frac{3}{4} \times 2\frac{1}{4}$ in.	14.50	16.00	20.00	.....
$1\frac{3}{4} \times 2\frac{1}{2}$ in.	15.50	17.00	21.00	.....
$2 \times 2\frac{1}{4}$ in.	15.50	17.00	21.00	.....
$2 \times 2\frac{1}{2}$ in.	17.50	19.50	24.50	.....
$2 \times 2\frac{3}{4}$ in.	19.50	22.00	27.00	.....
2×3 in.	21.50	24.50	29.50	.....

Shafts, driven and pinned, \$1.00 per dozen *net* advance.

ALL PRICES SUBJECT TO DISCOUNT.

Adams Express Shafts—

1 $\frac{3}{4}$ x2 $\frac{1}{2}$ in., Black Hickory, rough.....\$3.75 per pair.

Coupe Shafts—

1 $\frac{1}{2}$ x2 $\frac{1}{4}$ in., Black Hickory, rough.....\$2.25 per pair.
1 $\frac{3}{4}$ x2 $\frac{1}{2}$.. 3.00

Sulky Shafts, Rough—★

Black Hickory. 2d Gro. Ash.
Half-circle back, 1 $\frac{3}{4}$ x2 in..... \$2.60 \$4.20 per doz. pairs.
Full-circle back, 1 $\frac{3}{4}$ x2 $\frac{1}{4}$ in..... 3.65 5.95

Shaft Cross Bars, Rough or Finished—★

	XX	No Tenon. XXX	Black Hickory.	2d Growth.
1 $\frac{3}{8}$ x1 $\frac{3}{8}$	\$1.25	\$1.75	\$2.50	\$5.00 per doz.
1 $\frac{3}{8}$ x2				
1 $\frac{1}{2}$ x2	1.35	1.85	2.60	5.10 "
1 $\frac{1}{2}$ x2 $\frac{1}{4}$	1.45	1.95	2.70	5.25 "
1 $\frac{5}{8}$ x2 $\frac{1}{4}$	1.60	2.10	2.85	5.40 "
1 $\frac{3}{4}$ x2 $\frac{1}{4}$	1.75	2.25	3.15	5.50 "
1 $\frac{3}{4}$ x2 $\frac{1}{2}$	2.00	2.50	3.40	6.00 "
2 x2 $\frac{1}{2}$	2.75	3.25	4.25	7.00 "
2 x3	3.00	3.75	4.75	9.00 "

Ironed Buggy Shafts—

With Singletree.
In the white.

	XX	XXX
1 $\frac{3}{8}$ x2 in.....	\$1.80	\$2.00 per pair,
1 $\frac{1}{2}$ x2 in.....	1.90	2.10 "
1 $\frac{1}{2}$ x2 $\frac{1}{4}$ in.....	2.10	2.30 "
1 $\frac{1}{2}$ x2 $\frac{1}{2}$ in.....	2.20	2.40 "

Ironed Buggy Shafts—

Painted and Trimmed. 17 in. leather points.

	XX	XXX
1 $\frac{3}{8}$ x2 in.....	\$2.80	\$3.00 per pair.
1 $\frac{1}{2}$ x2 in.....	2.90	3.10 "
1 $\frac{1}{2}$ x2 $\frac{1}{4}$ in.....	3.10	3.30 "
1 $\frac{1}{2}$ x2 $\frac{1}{2}$ in.....	3.20	3.40 "

Can be furnished with 24 or 36 in. leather points if desired.

Ironed Poles—



"S. D. K." Ironed Poles, in the white, and trimmed completely. Thoroughly well ironed with Wrought Iron Tees, double or single Hammer Strap, heavy drop-forged Stay Irons. Prices include Evener and Singletrees, Check Straps and Neckyoake. Double or Single Bend.

In-the-white.	XX	XXX
2x2 $\frac{1}{2}$ in. and smaller....	\$3.90	\$4.10 each.
2x2 $\frac{3}{4}$ and 2x3 in.....	4.40	4.70 "

Painted and Trimmed.

2x2 $\frac{1}{2}$ in. and smaller....	4.70	4.90 "
2x2 $\frac{3}{4}$ and 2x3 in.....	5.20	5.50 "

ALL PRICES SUBJECT TO DISCOUNT.

**Single Bend or Double
Bend Poles—★**

Planned square.		Price per dozen.		
Rough—		XX	XXX	Black Hickory. Second Growth.
1 $\frac{3}{4}$ x2 $\frac{1}{4}$ in.	}	\$ 8.00	\$10.00	\$14.50
2x2 $\frac{1}{4}$ in.				
2x2 $\frac{3}{8}$ in.				
2x2 $\frac{1}{2}$ in.				
2x2 $\frac{3}{4}$ in.....		9.50	12.50	17.00
2x3 in.....		10.50	13.50	18.00
2 $\frac{1}{4}$ x3 in.....		11.50	14.50	19.00
2 $\frac{1}{4}$ x3 $\frac{1}{4}$ in.....		12.50	15.50	20.00
2 $\frac{1}{4}$ x3 $\frac{1}{2}$ in.....		14.50	17.50	22.00
2 $\frac{1}{2}$ x3 $\frac{1}{2}$ in.....		18.00	21.00	26.00

For HALF-FINISHED, add \$1.50 per dozen to above list prices.

Finished. With circle bars.		Price per dozen.		
1 $\frac{3}{4}$ x2 $\frac{1}{4}$ in.	}	12.00	14.00	18.50
2x2 $\frac{1}{4}$ in.				
2x2 $\frac{3}{8}$ in.				
2x2 $\frac{1}{2}$ in.				
2x2 $\frac{3}{4}$ in.....		13.50	16.50	21.00
2x3 in.....		14.50	17.50	22.00
2 $\frac{1}{4}$ x3 in.....		15.50	18.50	23.00
2 $\frac{1}{4}$ x3 $\frac{1}{4}$ in.....		16.50	19.50	24.00
2 $\frac{1}{4}$ x3 $\frac{1}{2}$ in.....		18.50	21.50	26.00
2 $\frac{1}{2}$ x3 $\frac{1}{2}$ in.....		22.00	25.00	30.00

All Poles, in size to 2x2 $\frac{1}{2}$, inclusive, are packed one-half dozen in bundle. Balance, one-third dozen.

ALL PRICES SUBJECT TO DISCOUNT.

Straight or Platform Poles—★

Planed Square. Price per dozen.

Rough—	XX	XXX	Black Hickory.	Second Growth.
$1\frac{3}{4} \times 2\frac{1}{4}$ in. } $2 \times 2\frac{1}{4}$ in. } $2 \times 2\frac{3}{8}$ in. } $2 \times 2\frac{1}{2}$ in. }	\$ 7.50	\$ 9.50	\$14.00	\$20.50
$2 \times 2\frac{3}{4}$ in.	9.00	12.00	16.50	24.50
2×3 in.	10.00	13.00	17.50	25.50
$2\frac{1}{4} \times 3$ in.	11.00	14.00	18.50	28.50
$2\frac{1}{4} \times 3\frac{1}{4}$ in.	12.00	15.00	19.50	32.50
$2\frac{1}{4} \times 3\frac{1}{2}$ in.	14.00	17.00	21.50	36.50
$2\frac{1}{2} \times 3\frac{1}{2}$ in.	17.50	20.50	25.50	42.50

For Half-finished Straight Poles add \$1.50 per dozen to above list prices.

Finished. With straight or bent bar.

$1\frac{3}{4} \times 2\frac{1}{4}$ in. } $2 \times 2\frac{1}{4}$ in. } $2 \times 2\frac{3}{8}$ in. } $2 \times 2\frac{1}{2}$ in. }	11.50	13.50	18.00	24.50
$2 \times 2\frac{3}{4}$ in.	13.00	16.00	20.50	28.50
2×3 in.	14.00	17.00	21.50	29.50
$2\frac{1}{4} \times 3$ in.	15.00	18.00	22.50	32.50
$2\frac{1}{4} \times 3\frac{1}{4}$ in.	16.00	19.00	23.50	36.50
$2\frac{1}{4} \times 3\frac{1}{2}$ in.	18.00	21.00	25.50	40.50
$2\frac{1}{2} \times 3\frac{1}{2}$ in.	21.50	24.50	29.50	46.50

Pole Circles—★

Price per dozen.

Rough.	XX	XXX	Black Hickory.	Second Growth.
$1\frac{1}{4}$ square.	\$1.00	\$1.30	\$1.70	\$2.50
$1\frac{3}{8}$ square.	1.10	1.40	1.80	2.60
$1\frac{1}{2}$ square.	1.20	1.60	2.00	2.80
$1\frac{5}{8}$ square.	1.45	1.85	2.25	3.05
$1\frac{3}{4}$ square.	1.60	2.00	2.50	3.30

Finished Pole Circle Bars add 75 cents per dozen to above list prices.

ALL PRICES SUBJECT TO DISCOUNT.



Bows—



1	Farm Wagon, round top.....	\$0.80	per set.
2	" " square top.....	.90	"
3	Express " oval ".....	1.70	"
4	" " square ".....	1.70	"
5	Buggy mixed 2d growth, short.....	.40	"
6	" " long.....	.60	"

Extra wide Farm Wagon and Ice Wagon Bows to order.

Utah or Swell Bows—★

1½x7½ in.....	54c. each.
1¾x7½ in.....	70c. "
2 x7½ in.....	80c. "

Express Bow Slats—★

Planed and Beaded (22 pieces to set), 8 ft.....	\$1.50	per set.
" " " " " 10 ft.....	1.70	"
" " " " " 12 ft.....	2.10	"
" " " " " 14 ft.....	2.60	"

Wagon Bow Slats—★

1¾x5-16x14 ft.....	17c. each.
2 x ½ x14 ft.....	22c. "
2½x ½ x14 ft.....	26c. "

Rattan Moulding, Half Oval—

No. 6, 11-64 in.....	} All sizes 44 cents per pound.
" 7, 13-64 in.....	
" 8, 15-64 in.....	
" 9, 17-64 in.....	
" 10, 19-64 in.....	
" 12, 23-64 in.....	

Basswood Panels, ¾ inch thick—

For Sleighs and Bodies.....10c. per square foot.
(Up to 40 inches wide and 56 inches long.)

Whitewood Plugs—

⅜ 9-16 and ⅝ in.....70c. per 1,000.

Hickory Wedges—

For wedging boxes into hubs.

1¼	1½	2½	3	3½	4	4½	5 in. long.
\$2.00	2.00	2.68	3.35	4.00	4.00	4.68	4.68 per 1000.
For wedging spoke-tenons into felloes. All sizes 1¼ in. long.							
Width of heads.....				¾	½	⅝	¾ inch.
Prices.....				\$0.68	0.80	0.87	0.95 per 1000.

ALL PRICES SUBJECT TO DISCOUNT.

SELLE'S PLATFORM WAGON GEARS.

We devote unusual space to descriptions of these well-known Gears. The frequent inquiries as to what can be furnished and the orders we receive demonstrate a lack of sufficient information to enable our correspondents to order intelligently.

These gears are made, it would seem, to suit every demand.

They are made light, medium and heavy and the letters "L" "M" "H" indicate these patterns.

All the gears with the letter "B" after the number have the woods rounded on top, the cross-bars scrolled and the side-bars arched.

Order Platform Gears by number and letter, giving width of steel, length of side and cross springs.

In ordering Platform Gears clipped up, give full specifications as to width of steel, number of plates, length of side and cross springs, sizes of axles (front and rear), length of spindle, width of track out to out, width of tire to be used, height of front and rear wheels, sizes of spokes (front and rear), width and depth of rims, thickness of tire, width and length of body and whether it shall be hung level or sloping to the rear.

In ordering poles, eveners and shafts, state for what number of gear they are wanted.

In selecting a gear it is always best to choose a heavier size than is needed to carry the load, because springs and axles loaded to their full carrying capacity or over, wear out quicker than when used for lighter loads than they are really capable of carrying.

Where the back end of a wagon is to carry the greater part of the load, it is well to increase the size of rear springs, axles and wheels accordingly.

To aid in selecting the right size gear for any particular requirement refer to page 416 for Capacity of Springs.

As a further aid in making selections we give below the

ESTIMATED CARRYING CAPACITY OF AXLES.

Front and back.	Capacity.	Front and back.	Capacity.
1½ in.....	800 lbs.	2 in.....	6,000
1¼ in.....	1,000 "	2⅛ in.....	7,000
1⅓ in.....	1,500 "	2¼ in.....	8,000
1½ in.....	2,000 "	2½ in.....	9,000
1⅝ in.....	3,000 "	2¾ in.....	10,000
1¾ in.....	4,000 "	3 in.....	12,000
1⅞ in.....	5,000 "		

ALL PRICES SUBJECT TO DISCOUNT.

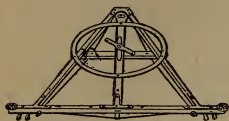
SELLE'S PLATFORM WAGON GEARS.
ILLUSTRATIONS.



Nos. 1, 2, 3 and 4.



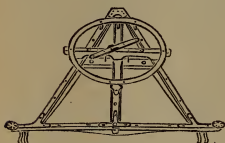
Nos. 5, 6 and 7.



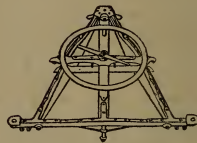
Nos. 10, 11, 12, 13 and 14.



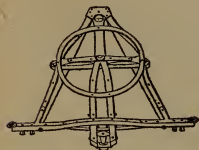
Nos. 10B to 14B.



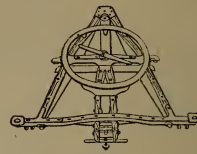
Nos. 15, 16, 17, 18 and 19.



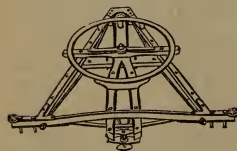
Nos. 15B to 19B.



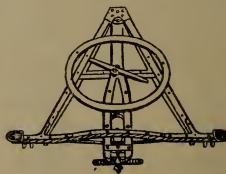
Nos. 20, 21, 22, 23 and 24.



Nos. 25, 26, 27, 28 and 29.



Nos. 30, 31, 32, 33 and 34.

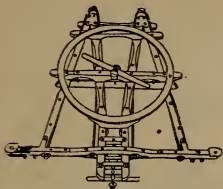


No. 35, 36, 37, 38 and 39.

For prices see pages 322 to 337.

SELLE'S PLATFORM GEARS.

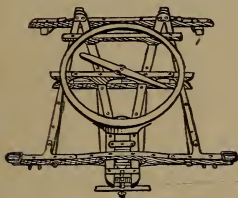
ILLUSTRATIONS.—Continued.



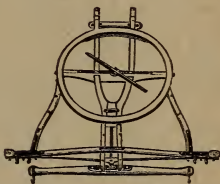
Nos. 40 to 46



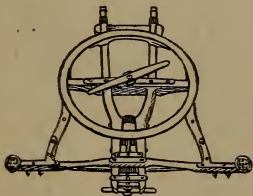
Nos. 40B to 44B.



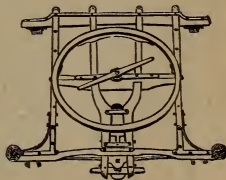
Nos. 50 to 56.



Nos. 60 to 62.



Nos. 63 to 66.



Nos. 70 to 75.

All the B styles have the woods rounded on top; cross bars scrolled; side bars arched; at extra cost. For prices see pages 322 to 337.

ALL PRICES SUBJECT TO DISCOUNT.

LIST PRICES OF SELLE'S GEARS. *

See illustration on page 320.

Light Passenger and Delivery—

Also Gears with Springs and Axles, the Axles Welded, Set and Clipped to Springs and Gears. Top Gears and Spring Bars, Pole and Eveners, Shafts, etc., Ironed Complete.

Low Circle Gear No.	Axles.	Spings, Oil Tempered, Plain or Ribbed.	Plain Circles.	Front Platform Only. (No Springs or axles)	Gear, Springs & Axles Clipped up with H P. Axle Concord.	Top Gear and Spring Bars.	Drop Pole and Eveners Ironed Complete	Shafts Ironed Complete.
1 L	1 $\frac{1}{8}$ x 7	1 $\frac{1}{4}$ —4 & 5—38 x 40	$\frac{1}{8}$ x 1 $\frac{1}{8}$ x 20	\$4.50	\$22.00	\$3.00	\$7.00	\$4.00
1 LX	1 $\frac{1}{8}$ x 7	1 $\frac{1}{4}$ —4 & 5—40 x 42	$\frac{1}{8}$ x 1 $\frac{1}{8}$ x 22	4.50	22.50	3.00	7.00	4.00
2 L	1 $\frac{1}{8}$ x 7	1 $\frac{3}{8}$ —4 & 5—38 x 40	$\frac{5}{16}$ x 1 $\frac{1}{8}$ x 22	4.50	23.50	3.50	7.25	4.00
2 LX	1 $\frac{1}{8}$ x 7	1 $\frac{3}{8}$ —4 & 5—40 x 42	$\frac{5}{16}$ x 1 $\frac{1}{8}$ x 22	4.50	24.00	3.50	7.25	4.00
2 H	1 $\frac{1}{4}$ x 7	1 $\frac{3}{8}$ —5 & 6—40 x 42	$\frac{1}{8}$ x 1 $\frac{1}{4}$ x 22	4.50	26.25	3.75	7.50	4.50
3 L	1 $\frac{1}{8}$ x 7	1 $\frac{1}{2}$ —4 & 5—38 x 40	$\frac{5}{16}$ x 1 $\frac{1}{4}$ x 22	4.50	23.75	3.75	7.25	4.00
3 LX	1 $\frac{1}{8}$ x 7	1 $\frac{1}{2}$ —4 & 5—40 x 42	$\frac{5}{16}$ x 1 $\frac{1}{4}$ x 22	4.50	24.25	3.75	7.25	4.00
3 M	1 $\frac{1}{4}$ x 7	1 $\frac{1}{2}$ —5 & 6—40 x 42	$\frac{5}{16}$ x 1 $\frac{1}{4}$ x 24	5.00	29.50	4.00	7.50	4.50
3 H	1 $\frac{3}{8}$ x 7 $\frac{1}{2}$	1 $\frac{1}{2}$ —6 & 7—40 x 42	$\frac{3}{8}$ x 1 $\frac{1}{4}$ x 24	5.25	32.75	4.50	7.75	5.00
4 L	1 $\frac{1}{4}$ x 7	1 $\frac{3}{4}$ —4 & 5—38 x 40	$\frac{3}{8}$ x 1 $\frac{3}{8}$ x 22	5.50	28.00	4.00	7.50	4.50
4 LX	1 $\frac{1}{4}$ x 7	1 $\frac{3}{4}$ —4 & 5—40 x 42	$\frac{3}{8}$ x 1 $\frac{3}{8}$ x 22	5.50	28.50	4.00	7.50	4.50
4 M	1 $\frac{3}{8}$ x 7 $\frac{1}{2}$	1 $\frac{3}{4}$ —5 & 6—40 x 42	$\frac{3}{8}$ x 1 $\frac{1}{2}$ x 24	6.75	34.00	4.50	7.75	5.00
4 H	1 $\frac{3}{4}$ x 8	1 $\frac{3}{4}$ —6 & 7—40 x 42	$\frac{3}{8}$ x 1 $\frac{1}{2}$ x 26	6.25	39.50	5.00	8.00	5.50

Order Platform Gears by number and letter, giving width of steel and length of side and cross springs. Gears Nos. 1L to 4H, for Shafts or Drop Pole and high front wheels to strike body in turning. For special sizes of gears, add from 25 to 50 cents per gear to list. For wrought Drop Steps see page 339. For Ox-horn Steps add 70 cents to list.

ALL PRICES SUBJECT TO DISCOUNT.

LIST PRICES OF SELLER'S GEARS—Continued.*

See illustration on page 320.

Light Passenger and Delivery—

Also Gears with Springs and Axles, the Axles Welded, Set and Clipped to Springs and Gears. Top Gears and Spring Bars, Pole and Eveners, Shafts, etc., Ironed Complete.

Raised Circle Gear No.	Axles.	Springs, Oil Tempered, Plain or Ribbed.	Plain Circles.	Front Platform only. (No springs or axles).	Gear, Springs & Axles Clipped up with H.P. Axle Concord.	Top Gear and Spring Bars.	Drop Pole and Eveners Ironed Complete.	Shafts Ironed Complete.	
6 L.	1 1/4 x 7	1 3/8 - 4 & 5 - 38 x 40	1 3/8 x 1 1/4 x 24	\$5.50	\$24.25	\$26.25	\$5.50	\$7.25	\$4.00
6 H.	1 1/4 x 7	1 3/8 - 5 & 6 - 40 x 42	1 3/8 x 1 1/4 x 24	6.75	27.25	29.75	6.00	7.50	4.50
6 L.	1 1/8 x 7	1 1/2 - 4 & 5 - 38 x 40	1 1/8 x 1 1/4 x 24	5.75	25.00	26.75	5.50	7.25	4.00
6 M.	1 1/4 x 7	1 1/2 - 5 & 6 - 40 x 42	1 1/8 x 1 1/4 x 26	6.25	28.50	30.75	6.00	7.50	4.50
6 H.	1 3/8 x 7 1/2	1 1/2 - 6 & 7 - 40 x 42	1 3/8 x 1 3/8 x 26	6.75	34.75	36.75	6.50	7.75	5.00
7 L.	1 3/4 x 7	1 3/4 - 4 & 5 - 38 x 40	3/8 x 1 3/8 x 26	6.75	29.25	31.50	6.50	7.50	4.50
7 M.	1 3/8 x 7 1/2	1 3/4 - 5 & 6 - 40 x 42	3/8 x 1 3/8 x 28	7.25	35.25	37.75	7.00	7.75	5.00
7 H.	1 1/2 x 8	1 3/4 - 6 & 7 - 40 x 42	1 1/2 x 1 1/2 x 28	8.00	41.25	43.75	7.50	8.00	5.50

Order Platform Gears by number and letter, giving width of steel and length of side and cross springs. Gears Nos. 5L to 7H, for Shafts or Drop Pole; circles raised to allow low front wheels to turn under body. For special sizes of gears, add from 25 to 50 cents per gear to list. For wrought Drop Steps, see page 339. For Ox-horn Steps, add 70 cents to list.

ALL PRICES SUBJECT TO DISCOUNT.

LIST PRICES OF SELLE'S GEARS—Continued.*

Light Business Wagons.

See illustration on page 320.

Low Circle Gear No.	Concord Axles	Springs, Oil Tempered, Plain or Ribbed.	Plain Circles.	Front Platform only. (Nosprings or axles.)	Gear, Springs and Axles Clipped Up.	Top Gear and Spring Bars.	* Pole and Eveners Ironed Complete.	Shafts Ironed Complete.
10 L	1 $\frac{1}{8}$ x 7	1 $\frac{3}{8}$ —4 & 5—38 x 40	1 $\frac{1}{8}$ x 1 $\frac{1}{4}$ x 22	\$ 6.25	\$27.00	\$3.50	\$7.00	\$4.00
10 M	1 $\frac{1}{8}$ x 7	1 $\frac{3}{8}$ —4 & 6—40 x 42	1 $\frac{1}{8}$ x 1 $\frac{1}{4}$ x 24	6.00	27.75	3.50	7.25	4.00
10 H	1 $\frac{1}{4}$ x 7	1 $\frac{3}{8}$ —5 & 6—40 x 42	1 $\frac{3}{8}$ x 1 $\frac{1}{4}$ x 24	7.00	31.00	3.75	7.50	4.50
11 L	1 $\frac{1}{8}$ x 7	1 $\frac{1}{2}$ —4 & 5—38 x 40	1 $\frac{1}{8}$ x 1 $\frac{1}{4}$ x 22	7.00	28.00	3.75	7.25	4.00
11 M	1 $\frac{1}{4}$ x 7	1 $\frac{1}{2}$ —5 & 6—40 x 42	1 $\frac{3}{8}$ x 1 $\frac{1}{4}$ x 24	7.50	32.00	4.00	7.50	4.50
11 H	1 $\frac{3}{4}$ x 7 $\frac{1}{2}$	1 $\frac{1}{2}$ —6 & 7—40 x 42	1 $\frac{3}{8}$ x 1 $\frac{3}{8}$ x 24	8.00	38.00	4.50	7.75	5.00
12 L	1 $\frac{1}{4}$ x 7	1 $\frac{3}{4}$ —4 & 5—38 x 40	1 $\frac{3}{8}$ x 1 $\frac{3}{8}$ x 26	8.50	33.25	4.00	7.50	4.50
12 M	1 $\frac{3}{8}$ x 7 $\frac{1}{2}$	1 $\frac{3}{4}$ —5 & 6—40 x 42	1 $\frac{3}{8}$ x 1 $\frac{1}{2}$ x 26	9.00	39.50	4.50	7.75	5.00
12 H	1 $\frac{1}{2}$ x 8	1 $\frac{3}{4}$ —6 & 7—40 x 42	1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 26	9.50	45.25	5.00	8.00	5.50
13 L	1 $\frac{1}{2}$ x 8	2—6 & 7—40 x 42	1 $\frac{3}{8}$ x 1 $\frac{1}{2}$ x 26	10.00	48.25	5.00	8.00	5.50
13 M	1 $\frac{5}{8}$ x 8 $\frac{1}{2}$	2—7 & 8—40 x 42	1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 26	10.50	54.00	5.50	8.50	6.00
13 H	1 $\frac{3}{4}$ x 9	2—8 & 9—40 x 42	1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 26	11.00	63.00	6.00	9.00	6.50
14 L	1 $\frac{5}{8}$ x 8 $\frac{1}{2}$	2 $\frac{1}{4}$ —7 & 8—40 x 42	1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 26	11.50	59.00	5.50	8.50	6.00
14 M	1 $\frac{3}{4}$ x 9	2 $\frac{1}{4}$ —8 & 9—40 x 42	1 $\frac{1}{2}$ x 1 $\frac{3}{4}$ x 26	12.25	67.25	6.00	9.00	6.50
14 H	1 $\frac{7}{8}$ x 9 $\frac{1}{2}$	2 $\frac{1}{4}$ —9 & 10—40 x 42	1 $\frac{1}{2}$ x 1 $\frac{3}{4}$ x 26	13.00	78.00	6.50	9.50	7.00

Nos. 10L to 14H, for Shafts or Drop-Pole, and high front wheels to strike body in turning. For special sizes add to list price \$1 to \$2 per gear. Gears Nos. 10L to 14H, can be made to receive singletrees under splinter bar, and if so ordered add 50 cents to list price of gear. For wrought drop steps see page 339. For stiff pole attachment see page 339. *Either Drop Pole or Stiff Pole, as desired.

ALL PRICES SUBJECT TO DISCOUNT.

LIST PRICES OF SELLER'S GEARS—Continued.*

Grocers and Business Wagons.

See illustration on page 320.

Low Circle Gear No.	Concord Axles,	Springs, Oil Tempered, Plain or Ribbed.	Plain Circles.	Front Plat- form Only. (No springs or axles.)	Gear, Springs and Axles Clipped Up.	Top Gear and Spring Bars.	* Pole and Eveners Ironed Complete.	Shafts Ironed Complete.
10 BL	1 1/8 x 7	1 3/8-4 x 5-38 x 40	1 5/8 x 1 1/4 x 24	\$8.25	\$29.00	\$3.50	\$7.00	\$4.00
10 BM	1 1/8 x 7	1 3/8-4 x 5-40 x 42	1 5/8 x 1 1/4 x 24	8.50	29.75	3.50	7.25	4.00
10 BH	1 1/4 x 7	1 3/8-5 x 6-40 x 42	3/8 x 1 1/4 x 24	9.00	33.00	3.75	7.50	4.50
11 BL	1 1/8 x 7	1 1/2-4 x 5-38 x 40	1 5/8 x 1 1/4 x 24	9.00	30.00	3.75	7.25	4.00
11 BM	1 1/4 x 7	1 1/2-5 x 6-40 x 42	3/8 x 1 1/4 x 26	9.50	34.00	4.00	7.50	4.50
11 BH	1 3/8 x 7 1/2	1 1/2-6 x 7-40 x 42	3/8 x 1 3/8 x 26	10.00	40.00	4.50	7.75	5.00
12 BL	1 1/4 x 7	1 3/4-4 x 5-38 x 40	3/8 x 1 3/8 x 24	10.50	35.25	4.00	7.50	4.50
12 BM	1 3/8 x 7 1/2	1 3/4-5 x 6-40 x 42	3/8 x 1 1/2 x 26	11.00	41.50	4.50	7.75	5.00
12 BH	1 1/2 x 8	1 3/4-6 x 7-40 x 42	1 5/8 x 1 1/2 x 26	11.50	47.25	5.00	8.00	5.50
13 BL	1 1/2 x 8	2-6 x 7-40 x 42	3/8 x 1 1/2 x 26	12.00	50.25	5.00	8.00	5.50
13 BM	1 5/8 x 8 1/2	2-7 x 8-40 x 42	3/8 x 1 1/2 x 26	12.50	55.00	5.50	8.50	6.00
13 BH	1 3/4 x 9	2-8 x 9-40 x 42	1 1/2 x 1 1/2 x 26	13.00	65.00	6.00	9.00	6.50
14 BL	1 5/8 x 8 1/2	2 1/4-7 x 8-40 x 42	1 1/2 x 1 1/2 x 26	13.50	61.00	5.50	8.50	6.00
14 BM	1 3/4 x 9	2 1/4-8 x 9-40 x 42	1 5/8 x 1 3/4 x 26	14.25	69.25	6.00	9.00	6.50
14 BH	1 1/8 x 9 1/2	2 1/4-9 x 10-40 x 42	1 1/2 x 1 3/4 x 26	15.00	80.00	6.50	9.50	7.00

Nos. 10BL to 14BH, for Shafts or Drop-Pole, and high front wheels to strike body in turning. For special sizes add to list price \$1 to \$2 per gear. For wrought drop steps see page 339. For Stiff-Pole attachment, see page 339. *Either Drop Pole or Stiff-Pole as desired.

ALL PRICES SUBJECT TO DISCOUNT.

LIST PRICES OF SELLE'S GEARS—Continued.*

Light Business Wagons—

See illustration on page 320.

Raised Circle Gear No.	Concord Axles.	Springs, Oil Tempered, Plain or Ribbed.	Plain Circles.	Front Platform only. (No springs or axles.)	Gear, Springs and Axles Clipped Up.	Top Gear and Spring Bars.	* Pole and Eveners Ironed Complete.	Shafts Ironed Complete.
15 L	1 $\frac{1}{8}$ x 7	1 $\frac{3}{8}$ — 4 & 5—38 x 40	5 $\frac{1}{8}$ x 1 $\frac{1}{4}$ x 24	\$ 7.25	\$28.50	\$5.50	\$7.25	\$4.00
15 M	1 $\frac{1}{8}$ x 7	1 $\frac{3}{8}$ — 4 & 5—40 x 42	5 $\frac{1}{8}$ x 1 $\frac{1}{4}$ x 26	8.00	29.25	5.50	7.25	4.00
15 H	1 $\frac{1}{4}$ x 7	1 $\frac{3}{8}$ — 5 & 6—40 x 42	3 $\frac{1}{8}$ x 1 $\frac{1}{4}$ x 26	8.50	32.50	6.00	7.50	4.50
16 L	1 $\frac{1}{8}$ x 7	1 $\frac{1}{2}$ — 4 & 5—38 x 40	5 $\frac{1}{8}$ x 1 $\frac{1}{4}$ x 24	8.50	29.50	5.50	7.25	4.00
16 M	1 $\frac{1}{4}$ x 7	1 $\frac{1}{2}$ — 5 & 6—40 x 42	3 $\frac{1}{8}$ x 1 $\frac{1}{4}$ x 26	9.00	33.50	6.00	7.50	4.50
16 H	1 $\frac{3}{8}$ x 7 $\frac{1}{2}$	1 $\frac{1}{2}$ — 6 & 7—40 x 42	3 $\frac{1}{8}$ x 1 $\frac{3}{8}$ x 26	9.50	39.50	6.50	7.75	5.00
17 L	1 $\frac{1}{4}$ x 7	1 $\frac{3}{4}$ — 4 & 5—38 x 40	3 $\frac{3}{8}$ x 1 $\frac{3}{8}$ x 26	10.00	34.75	6.50	7.50	4.50
17 M	1 $\frac{3}{8}$ x 7 $\frac{1}{2}$	1 $\frac{3}{4}$ — 5 & 6—40 x 42	3 $\frac{3}{8}$ x 1 $\frac{1}{2}$ x 28	10.50	41.00	7.00	7.75	5.00
17 H	1 $\frac{1}{2}$ x 8	1 $\frac{3}{4}$ — 6 & 7—40 x 42	1 $\frac{1}{8}$ x 1 $\frac{1}{2}$ x 28	11.00	46.75	7.50	8.00	5.50
18 L	1 $\frac{1}{2}$ x 8	2— 6 & 7—40 x 42	3 $\frac{3}{8}$ x 1 $\frac{1}{2}$ x 28	11.50	49.75	7.75	8.00	5.50
18 M	1 $\frac{5}{8}$ x 8 $\frac{1}{2}$	2— 7 & 8—40 x 42	1 $\frac{1}{8}$ x 1 $\frac{1}{2}$ x 28	12.00	55.50	8.00	8.50	6.00
18 H	1 $\frac{3}{4}$ x 9	2— 8 & 9—40 x 42	1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 28	12.50	64.50	8.50	9.00	6.50
19 L	1 $\frac{5}{8}$ x 8 $\frac{1}{2}$	2 $\frac{1}{4}$ — 7 & 8—40 x 42	1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 28	13.00	60.50	8.50	8.50	6.00
19 M	1 $\frac{3}{4}$ x 9	2 $\frac{1}{4}$ — 8 & 9—40 x 42	1 $\frac{1}{8}$ x 1 $\frac{3}{4}$ x 30	13.75	68.75	9.00	9.00	6.50
19 H	1 $\frac{7}{8}$ x 9 $\frac{1}{2}$	2 $\frac{1}{4}$ — 9 & 10—40 x 42	1 $\frac{1}{2}$ x 1 $\frac{3}{4}$ x 30	14.50	79.50	9.50	9.50	7.00

Nos. 15L to 19H, for Shafts or Drop Pole, with circles raised to allow low front wheels to turn under body for special sizes, add to list price \$1 to \$2 per gear. Gears Nos. 15L to 19H can be made to receive single-trees under splinter bar, and if so ordered, add 50 cents to list price of gear. For wrought drop steps, see page 339. For Stiff Pole attachment, see page 339. *Either Drop Pole or Stiff Pole, as desired.

ALL PRICES SUBJECT TO DISCOUNT.

LIST PRICES OF SELLER'S GEARS—Continued.*

See illustration on page 320.

Raised Circle Gear No.	Concord Axles.	Springs, Oil Tempered, Plain or Ribbed.	Plain Circles.	Front Platform Only, (No springs or axles.)	Gear, Springs and Axles Clipped Up.	Top Gear and Spring Bars.	* Pole and Eveners Ironed Complete.	Shafts Ironed Complete
16 BL	1 1/8 x 7	1 3/8-4 & 5-38 x 40	1 1/8 x 1 1/4 x 24	\$ 9.75	\$30.50	\$5.50	\$7.25	\$4.00
16 BM	1 1/8 x 7	1 3/8-4 & 6-40 x 42	1 1/8 x 1 1/4 x 26	10.00	31.25	5.40	7.25	4.00
16 BH	1 1/4 x 7	1 3/8-5 & 6-40 x 42	3/8 x 1 1/4 x 26	10.50	34.50	6.10	7.50	4.50
16 BL	1 1/4 x 7	1 1/2-4 & 5-38 x 40	5/8 x 1 1/4 x 26	10.50	31.50	5.50	7.25	4.00
16 BM	1 1/4 x 7	1 1/2-5 & 6-40 x 42	5/8 x 1 1/4 x 28	11.00	35.50	6.00	7.50	4.50
16 BH	1 3/8 x 7 1/2	1 1/2-6 & 7-40 x 42	3/8 x 1 3/8 x 28	11.50	41.50	6.50	7.75	5.00
17 BL	1 1/4 x 7	1 3/4-4 & 5-38 x 40	3/8 x 1 3/8 x 26	12.00	36.75	6.50	7.50	4.50
17 BM	1 3/8 x 7 1/2	1 3/4-5 & 6-40 x 42	3/8 x 1 1/2 x 28	12.50	43.00	7.00	7.75	5.00
17 BH	1 1/2 x 8	1 3/4-6 & 7-40 x 42	1/2 x 1 1/2 x 28	13.00	48.75	7.50	8.00	5.50
18 BL	1 1/2 x 8	2 -6 & 7-40 x 42	3/8 x 1 1/2 x 28	13.50	51.75	7.75	8.00	5.50
18 BM	1 5/8 x 8 1/2	2 -7 & 8-40 x 42	1/2 x 1 1/2 x 28	14.00	57.50	8.00	8.50	6.00
18 BH	1 3/4 x 9	2 -8 & 9-40 x 42	1/2 x 1 1/2 x 28	14.50	66.50	8.50	9.00	6.50
19 BL	1 5/8 x 8 1/2	2 1/4-7 & 8-40 x 42	1/2 x 1 1/2 x 28	15.00	62.50	8.50	8.50	6.00
19 BM	1 3/4 x 9	2 1/4-8 & 9-40 x 42	1/2 x 1 3/4 x 30	15.75	70.75	9.00	9.00	6.50
19 BH	1 7/8 x 9 1/2	2 1/4-9 & 10-40 x 42	1/2 x 1 3/4 x 30	16.50	81.50	9.50	9.50	7.00

Nos. 15BL to 19BH, for Shafts or Drop Pole, with circles raised to allow low front wheels to turn under body. For special sizes, add to list price \$1 to \$2 per gear. For wrought drop steps, see page 339. For Stiff Pole attachments, see page 339.

*Either Drop Pole or Stiff Pole, as desired.

ALL PRICES SUBJECT TO DISCOUNT.

LIST PRICES OF SELLE'S GEARS—Continued.*

Omnibus, Police Wagons, etc.—

See illustration on page 320.

Low Circle Gear No.	Concord Axles.	Springs, Oil Tempered, Plain or Ribbed.	Plain Circles.	Front Platform Only. (No Springs or axles.)	Gear, Springs and Axles Clipped Up.	Top Gear and Spring Bars.	Stiff Pole and Eveners Ironed Complete.	Shafts Ironed Complete.
20 L	1½ x 7	1½—4 & 5—38 x 40	1½ x 1¼ x 24	\$15.50	\$36.50	\$3.75	\$7.25	\$4.00
20 M	1¼ x 7	1½—5 & 6—40 x 42	¾ x 1¼ x 26	16.00	40.50	4.00	7.50	4.50
20 H	1¾ x 7½	1½—6 & 7—40 x 42	¾ x 1½ x 26	16.50	46.50	4.50	7.75	5.00
21 L	1¼ x 7	1¾—4 & 5—38 x 40	¾ x 1¾ x 24	16.50	41.25	4.00	7.50	4.50
21 M	1½ x 7½	1¾—5 & 6—40 x 42	¾ x 1½ x 26	17.00	47.50	4.50	7.75	5.00
21 H	1½ x 8	1¾—6 & 7—40 x 42	1 x 1½ x 26	17.50	53.25	5.00	8.00	5.50
22 L	1½ x 8	2—6 & 7—40 x 42	¾ x 1½ x 26	18.00	56.25	5.00	8.00	5.50
22 M	1½ x 8½	2—7 & 8—40 x 42	1 x 1½ x 26	18.50	62.00	5.50	8.50	6.00
22 H	1¾ x 9	2—8 & 9—40 x 42	1½ x 1½ x 26	19.00	71.00	6.00	9.00	6.50
23 L	1½ x 8½	2¼—7 & 8—40 x 42	1 x 1½ x 26	19.00	66.50	5.50	8.50	6.00
23 M	1¾ x 9	2¼—8 & 9—40 x 42	1 x 1¾ x 26	19.50	74.50	6.00	9.00	6.50
23 H	1¾ x 9½	2¼—9 & 10—40 x 42	1½ x 1¾ x 26	20.50	85.50	6.50	9.50	7.00
24 L	1¾ x 9	2½—8 & 9—40 x 42	1 x 1¾ x 26	21.00	78.00	6.00	9.00	6.50
24 M	1¾ x 9½	2½—9 & 10—40 x 42	1½ x 1¾ x 26	22.50	87.50	6.50	9.50	7.00
24 H	2 x 10	2½—10 & 11—40 x 42	1½ x 2 x 26	24.50	95.50	7.00	10.00	8.00

Order Platform Gears by number and letter, giving width of steel, length of side and cross springs. Nos. 20L to 24H, for Stiff Pole and high front wheels to strike body in turning. For wrought drop steps, see page 339. For special sizes, add to list price \$1 to \$2.50 per gear.

ALL PRICES SUBJECT TO DISCOUNT.

LIST PRICES OF SELLER'S GEARS—Continued.*

Omnibus, Hook and Ladder, etc.

See illustration on page 320.

Raised Circle Gear No.	Concord Axles.	Springs, Oil Tempered, Plain or Ribbed	Plain Circles.	Front Plat- form Only. (No springs or axles)	Gear, Springs and Axles Clipped Up.	Top Gear and Spring Bars.	Stiff Pole and Even- ers Ironed Complete.	Shafts Ironed Complete.
25 L	1 1/8 x 7	1 1/2-4 1/2 5-38 x 40	8 x 1 1/4 x 26	\$16.00	\$37.00	\$5.50	\$7.25	\$4.00
25 M	1 1/4 x 7	1 1/2-5 1/2 6-40 x 42	8 3/8 x 1 1/4 x 26	16.10	41.10	6.00	7.50	4.50
25 H	1 3/8 x 7 1/2	1 1/2-6 1/2 7-40 x 42	8 3/8 x 1 3/8 x 26	17.00	47.00	6.50	7.75	5.00
26 L	1 1/4 x 7	1 3/4-4 1/2 5-38 x 40	3 3/8 x 1 3/8 x 26	17.00	41.75	6.10	7.50	4.50
26 M	1 3/8 x 7 1/2	1 3/4-5 1/2 6-40 x 42	3 3/8 x 1 1/2 x 28	17.50	48.10	7.00	7.75	5.00
26 H	1 1/2 x 8	1 3/4-6 1/2 7-40 x 42	4 1/4 x 1 1/2 x 28	18.00	53.75	7.50	8.00	5.50
27 L	1 1/2 x 8	2-6 1/2 7-40 x 42	4 1/2 x 1 1/2 x 28	18.50	56.75	7.75	8.00	5.50
27 M	1 5/8 x 8 1/2	2-7 1/2 8-40 x 42	4 3/4 x 1 1/2 x 28	19.10	62.50	8.10	8.50	6.00
27 H	1 3/4 x 9	2-8 1/2 9-40 x 42	5 x 1 3/4 x 28	19.50	71.50	8.50	9.00	6.50
28 L	1 5/8 x 8 1/2	2 1/4-7 1/2 8-40 x 42	4 1/2 x 1 1/2 x 30	19.50	67.00	8.50	8.50	6.00
28 M	1 3/4 x 9	2 1/4-8 1/2 9-40 x 42	4 3/4 x 1 3/4 x 30	20.50	75.50	9.00	9.00	6.50
28 H	1 7/8 x 9 1/2	2 1/4-9 1/2 10-40 x 42	5 x 1 3/4 x 30	21.50	86.50	9.50	9.50	7.00
29 L	1 3/4 x 9	2 1/2-8 1/2 9-40 x 42	4 1/2 x 1 3/4 x 30	22.00	79.00	9.50	9.00	6.50
29 M	1 7/8 x 9 1/2	2 1/2-9 1/2 10-40 x 42	4 3/4 x 1 3/4 x 32	23.50	88.50	10.00	9.50	7.00
29 H	2 x 10	2 1/2-10 1/2 11-40 x 42	5 x 2 x 32	25.50	96.50	10.50	10.00	8.00

Nos. 25L to 29H, for Stiff Pole and low front wheels to turn under body. For special sizes, add to list price \$1 to \$2.50 per gear. For wrought drop steps, see page 339.

ALL PRICES SUBJECT TO DISCOUNT.

LIST PRICES OF SELLE'S GEARS—Continued.*

Light Truck and Transfer Wagons.

See illustration on page 320.

Raised Circle Gear No.	Concord Axles.	Springs, Oil Tempered, Plain or Ribbed.	Plain Circles.	Front Platform Only. (Nosprings or axles)	Gear, Springs and Axles Clipped Up.	Top Gear and Spring Bars.	Stiff Pole and Eveners Ironed Complete	Shafts Ironed Complete.
30 L	1 $\frac{1}{8}$ x 7	1 $\frac{1}{2}$ —4 & 5—38 x 40	1 $\frac{1}{8}$ x 1 $\frac{1}{4}$ x 26	\$14.50	\$35.50	\$5.50	\$7.25	\$4.00
30 M	1 $\frac{1}{4}$ x 7	1 $\frac{1}{2}$ —5 & 6—40 x 42	1 $\frac{3}{8}$ x 1 $\frac{1}{4}$ x 26	15.00	39.50	6.00	7.50	4.50
30 H	1 $\frac{3}{8}$ x 7 $\frac{1}{2}$	1 $\frac{1}{2}$ —6 & 7—40 x 42	1 $\frac{3}{8}$ x 1 $\frac{3}{8}$ x 26	15.50	45.50	6.50	7.75	6.00
31 L	1 $\frac{1}{4}$ x 7	1 $\frac{3}{4}$ —4 & 5—38 x 40	1 $\frac{3}{8}$ x 1 $\frac{3}{8}$ x 26	15.50	40.25	6.50	7.50	4.50
31 M	1 $\frac{3}{8}$ x 7 $\frac{1}{2}$	1 $\frac{3}{4}$ —5 & 6—40 x 42	1 $\frac{3}{8}$ x 1 $\frac{1}{2}$ x 28	16.00	46.50	7.00	7.75	5.00
31 H	1 $\frac{1}{2}$ x 8	1 $\frac{3}{4}$ —6 & 7—40 x 42	1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 28	16.50	52.25	7.50	8.00	5.50
32 L	1 $\frac{1}{2}$ x 8	2—6 & 7—40 x 42	1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 28	17.00	55.25	7.75	8.00	5.50
32 M	1 $\frac{5}{8}$ x 8 $\frac{1}{2}$	2—7 & 8—40 x 42	1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 28	17.50	61.00	8.00	8.50	6.00
32 H	1 $\frac{3}{4}$ x 9	2—8 & 9—40 x 42	1 $\frac{1}{2}$ x 1 $\frac{3}{4}$ x 28	18.00	70.00	8.50	9.00	6.50
33 L	1 $\frac{5}{8}$ x 8 $\frac{1}{2}$	2 $\frac{1}{4}$ —7 & 8—40 x 42	1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 30	19.00	66.50	8.50	8.50	6.00
33 M	1 $\frac{3}{4}$ x 9	2 $\frac{1}{4}$ —8 & 9—40 x 42	1 $\frac{1}{2}$ x 1 $\frac{3}{4}$ x 30	20.00	75.00	9.00	9.00	6.50
33 H	1 $\frac{7}{8}$ x 9 $\frac{1}{2}$	2 $\frac{1}{4}$ —9 & 10—40 x 42	1 $\frac{1}{2}$ x 1 $\frac{3}{4}$ x 30	21.00	86.00	9.50	9.50	7.00
34 L	1 $\frac{3}{4}$ x 9	2 $\frac{1}{2}$ —8 & 9—40 x 42	1 $\frac{1}{2}$ x 1 $\frac{3}{4}$ x 30	21.50	78.50	9.50	9.00	6.50
34 M	1 $\frac{7}{8}$ x 9 $\frac{1}{2}$	2 $\frac{1}{2}$ —9 & 10—40 x 42	1 $\frac{1}{2}$ x 1 $\frac{3}{4}$ x 32	22.50	87.50	10.00	9.50	7.00
34 H	2 x 10	2 $\frac{1}{2}$ —10 & 11—40 x 42	1 $\frac{1}{2}$ x 2 x 32	24.00	95.00	10.50	10.00	8.00

Nos. 30L to 34H, for light truck wagons, Stiff Pole and low front wheels to turn under body. For special sizes, add to list price \$1 to \$2.50 per gear. For wrought drop steps, see page 339.

ALL PRICES SUBJECT TO DISCOUNT.

LIST PRICES OF SELLER'S GEARS—Continued.

Light Truck and Transfer Wagon—See illustration on page 320.

Low Circle Gear No.	Concord Axles.	Springs, Oil Tempered, Plain or Ribbed.	Plain Circles.	Front Plat-form Only. (Nosprings or axles)	Gear, Springs and Axles Clipped up.	Top Gear and Spring Bars	Stiff Pole and Even-ers Ironed Complete.	Shafts Ironed Complete.
35 L	1 1/8 x 7	1 1/2 - 4 & 5-38 x 40	1 5/8 x 1 1/4 x 24	\$14.00	\$35.00	\$3.75	\$7.25	\$4.00
35 M	1 1/4 x 7	1 1/2 - 5 & 6-40 x 42	3/8 x 1 1/4 x 24	14.50	39.00	4.00	7.50	4.50
35 H	1 3/8 x 7 1/2	1 1/2 - 6 & 7-40 x 42	3/8 x 1 3/8 x 24	15.00	45.00	4.50	7.75	5.00
36 L	1 1/4 x 7	1 3/4 - 4 & 5-38 x 40	3/8 x 1 3/8 x 24	15.00	39.75	4.00	7.50	4.50
36 M	1 1/2 x 7 1/2	1 3/4 - 5 & 6-40 x 42	3/8 x 1 1/2 x 26	15.50	46.00	4.50	7.75	5.00
36 H	1 1/2 x 8	1 3/4 - 6 & 7-40 x 42	1 1/8 x 1 1/2 x 26	16.00	51.75	5.00	8.00	5.50
37 L	1 1/2 x 8	2 - 6 & 7-40 x 42	3/8 x 1 1/2 x 26	16.50	54.75	5.00	8.00	5.50
37 M	1 5/8 x 8 1/2	2 - 7 & 8-40 x 42	1 1/8 x 1 1/2 x 26	17.00	60.50	5.50	8.50	6.00
37 H	1 3/4 x 9	2 - 8 & 9-40 x 42	1 1/2 x 1 1/2 x 26	17.50	69.50	6.00	9.00	6.50
38 L	1 5/8 x 8 1/2	2 1/4 - 7 & 8-40 x 42	7/8 x 1 1/2 x 26	18.00	65.50	5.50	.50	6.00
38 M	1 3/4 x 9	2 1/4 - 8 & 9-40 x 42	7/8 x 1 3/4 x 26	19.00	74.00	6.00	9.00	6.50
38 H	1 3/8 x 9 1/2	2 1/4 - 9 & 10-40 x 42	1 1/2 x 1 3/4 x 26	20.00	85.00	6.50	9.50	7.00
39 L	1 3/4 x 9	2 1/2 - 8 & 9-10 x 42	7/8 x 1 3/4 x 26	20.50	77.50	6.00	9.00	6.50
39 M	1 3/8 x 9 1/2	2 1/2 - 9 & 10-40 x 42	1 1/2 x 1 3/8 x 26	21.50	86.50	6.50	9.50	7.10
39 H	2 x 10	2 1/2 - 10 & 11-40 x 42	1 1/2 x 2 x 26	23.00	94.00	7.00	10.00	8.00

Nos. 35L to 39H, for light truck wagons, Stiff Pole and high front wheels to strike body in turning. For special sizes, add to list price \$1 to \$2.50 per gear. For wrought drop steps, see page 339.

ALL PRICES SUBJECT TO DISCOUNT.

LIST PRICES OF SELLE'S GEARS—Continued.*

Transfer Trucks, Sprinklers, etc.—See illustration on page 321.

Raised Circle Gear No.	Concord Axles.	Springs, Oil Tempered and Ribbed.	Plain Circles.	Front Plat- form Only (Nosprings or axles)	Gear, Springs and Axles Clipped up.	Top Gear and Springs Bars.	Stiff Pole and Even- ers Ironed Complete.	Shafts Ironed Complete.
40 L	1½ x 8	2 — 6 & 7-40 x 42	1½ x 1½ x 31	\$25 00	\$83.25	\$7 75	\$8.00	\$5.50
40 M	1½ x 8½	2 — 7 & 8-40 x 42	1½ x 1½ x 30	26.25	69 75	8.00	8.50	6.00
40 H	1¾ x 9	2 — 8 & 9-40 x 42	1½ x 1½ x 30	27.50	79 50	8.50	9.00	6.50
41 L	1½ x 8½	2½ — 7 & 8-40 x 42	1½ x 1½ x 32	27.50	75 00	8.50	8.50	6.00
41 M	1½ x 9	2½ — 8 & 9-40 x 42	1½ x 1½ x 32	28 75	83 75	9.00	9.00	6.50
41 H	1¾ x 9½	2½ — 9 & 10-40 x 42	1½ x 1½ x 32	30.00	95.00	9.50	9.50	7.00
42 L	1¾ x 9	2½ — 8 & 9-40 x 42	1½ x 1½ x 32	30.00	87.00	9.50	9.00	6.50
42 M	1¾ x 9½	2½ — 9 & 10-40 x 42	1½ x 1½ x 32	31.25	96.25	10.00	9.50	7.00
42 H	2 x 10	2½ — 10 & 11-40 x 42	1½ x 1½ x 32	32.50	103.50	10.50	10.00	8.00
43 L	1½ x 9½	2¾ — 9 & 10-40 x 42	1½ x 1½ x 34	32.50	97.25	10.50	9.50	7.00
43 M	2 x 10	2¾ — 10 & 11-40 x 42	1½ x 2 x 34	33.75	105.50	11.00	10.00	8.00
43 H	2½ x 10½	2¾ — 11 & 12-40 x 42	1½ x 2 x 34	35.00	115.00	11.50	10.50	9.00
44 L	2 x 10	3 — 10 & 12-40 x 42	1½ x 2 x 34	35.00	118.25	11.50	10.00	.....
44 M	2½ x 10½	3 — 11 & 13-40 x 42	1½ x 2 x 34	36.50	129.00	12.00	10.50	.....
44 H	2½ x 11	3 — 12 & 14-40 x 42	1½ x 2 x 34	38.00	133.50	12.50	11.00	.....
45 L	2½ x 11	3½ — 12 & 14-42 x 44	1½ x 2 x 36	38.00	140.25	12.50	11.00	.....
45 M	2¾ x 11½	3½ — 13 & 15-42 x 44	1½ x 2 x 36	40.00	147.25	13.25	12.00	.....
45 H	2½ x 12	3½ — 14 & 16-42 x 44	1½ x 2½ x 36	42.00	163.50	14.00	13.00	.....
46 L	2¾ x 11½	3½ — 13 & 15-42 x 44	1½ x 2 x 36	42.00	153.25	14.00	13.00	.....
46 M	2½ x 12	3½ — 14 & 16-42 x 44	1½ x 2½ x 36	44.50	175.00	15.00	14.00	.....
46 H	2¾ x 12	3½ — 16 & 18-42 x 44	1½ x 2½ x 36	47.00	198.50	16.00	15.00	.....

For wrought drop steps, see page 339.

ALL PRICES SUBJECT TO DISCOUNT.

LIST PRICES OF SELLER'S GEARS—Continued.*

See illustration on page 321.

Business, Truck Wagons, etc.— Also Gears with Springs and Axles, the Axles Welded, Set and Clipped to Springs and Gears. Top Gears and Spring Bars, Pole and Eveners, Shafts, etc., Ironed Complete.

Raised Circle Gear No.	Concord Axles.	Springs, Oil Tempered and Ribbed.	Plain Circles.	Front Platform Only. (No springs or axles)	Gear, Springs and Axles Clipped up.	Top Gear and Spring Bars	Stiff Pole and Eveners Ironed Complete.	Shafts Ironed Complete.
40 BL	1½ x 8	2 — 6 & 7—40 x 42	3½ x 1½ x 30	\$30.00	\$68.25	\$7.75	\$8.00	\$5.50
40 BM	1½ x 8½	2 — 7 & 8—40 x 42	1½ x 1½ x 30	31.25	74.75	8.00	8.50	6.00
40 BH	1¾ x 9	2 — 8 & 9—40 x 42	1½ x 1½ x 30	32.50	84.50	8.50	9.00	6.50
41 BL	1½ x 8½	2¼ — 7 & 8—40 x 42	1½ x 1½ x 32	32.50	80.00	8.50	8.50	6.00
41 BM	1¾ x 9½	2¼ — 8 & 9—40 x 42	1½ x 1¾ x 32	33.75	88.75	9.00	9.00	6.50
41 BH	1¾ x 9½	2¼ — 9 & 10—40 x 42	1½ x 1¾ x 32	35.00	100.00	9.50	9.50	7.00
42 BL	1¾ x 9	2½ — 8 & 9—40 x 42	1¾ x 1¾ x 32	35.00	92.00	9.50	9.00	6.50
42 BM	1¾ x 9½	2½ — 9 & 10—40 x 42	1½ x 1¾ x 32	36.50	101.50	10.10	9.50	7.00
42 BH	2 x 10	2½ — 10 & 11—40 x 42	1½ x 1¾ x 32	38.00	109.00	10.50	10.00	8.00
43 BL	1½ x 9½	2¾ — 9 & 10—40 x 42	1½ x 1¾ x 34	38.00	102.75	10.50	9.50	7.00
43 BM	2 x 10	2¾ — 10 & 11—40 x 42	1½ x 2 x 34	40.00	111.75	11.00	10.00	8.00
43 BH	2½ x 10	2¾ — 11 & 12—40 x 42	1½ x 2 x 34	42.00	122.00	11.50	10.50	9.00
44 BL	2 x 10	3 — 10 & 12—40 x 42	1½ x 2 x 34	42.00	125.25	11.50	10.00	.....
44 BM	2½ x 10½	3 — 11 & 13—40 x 42	1½ x 2 x 34	44.50	137.10	12.00	10.50	.....
44 BH	2¾ x 12	3 — 12 & 14—40 x 42	1½ x 2 x 34	47.00	148.00	12.50	11.00	.....

For wrought drop steps, see page 339.

ALL PRICES SUBJECT TO DISCOUNT.

LIST PRICES OF SELLE'S GEARS—Continued.* **Heavy Transfer Trucks, etc.**—See illustration on page 321.

Raised Circle Gear No.	Concord Axles.		Springs, Oil Tempered and Ribbed.		Plain Circles.	Front Platform Only. (Nosprings or axles)	Gear, Springs and Axles Clipped Up	Top Gear and Spring Bars.	Stiff Pole and Eveners Ironed Complete.
	Front.	Rear.	Front	Rear.					
50 L	1½ x 8	1½ x 8½	2 — 6-40	2 — 7-42	1½ x 1½ x 30	\$26.00	\$62.75	\$8.50	\$3.00
50 M	1½ x 8½	1½ x 9	2 — 7-42	2 — 8-44	1½ x 1½ x 32	27.00	63.50	9.00	8.50
50 H	1½ x 9	1½ x 9½	2 — 8-42	2 — 10-44	1½ x 1½ x 34	29.00	65.00	9.50	9.00
51 L	1½ x 8½	1½ x 9	2½ — 7-42	2½ — 8-44	1½ x 1½ x 32	29.00	74.00	9.50	8.50
51 M	1½ x 9	1½ x 9½	2½ — 8-44	2½ — 10-46	1½ x 1½ x 34	30.25	84.50	10.00	9.00
51 H	1½ x 9½	2 x 10	2½ — 10-44	2½ — 12-48	1½ x 1½ x 36	31.50	95.00	10.50	9.50
52 L	1½ x 9	1½ x 9½	2½ — 8-44	2½ — 10-46	1½ x 1½ x 34	31.50	86.50	10.50	9.00
52 M	1½ x 9½	2 x 10	2½ — 10-44	2½ — 12-48	1½ x 1½ x 36	33.00	96.00	11.00	9.50
52 H	2 x 10	2½ x 10½	2½ — 12-46	2½ — 14-48	1½ x 2 x 34	34.50	109.25	11.50	10.00
53 L	1½ x 9½	2 x 10	2½ — 10-44	2½ — 12-48	1½ x 2 x 31	35.00	102.00	11.50	9.50
53 M	2 x 10	2½ x 10½	2½ — 12-46	2½ — 14-48	1½ x 2 x 34	36.50	110.50	12.00	10.00
53 H	2½ x 10	2½ x 11	2½ — 14-46	2½ — 16-48	1½ x 2 x 36	38.00	132.50	13.00	10.50
54 L	2 x 10	2½ x 10½	3 — 12-46	3 — 14-48	1½ x 2 x 36	38.00	116.25	13.00	10.00
54 M	2½ x 10½	2½ x 11	3 — 14-46	3 — 16-48	1½ x 2 x 36	40.00	137.50	14.00	10.50
54 H	2½ x 11	2½ x 11½	3 — 16-46	3 — 18-48	1½ x 2 x 36	42.00	169.00	15.00	11.00
55 L	2½ x 11	2½ x 11½	3½ — 14-46	3½ — 16-48	1½ x 2 x 36	42.00	143.50	15.00	11.00
55 M	2½ x 11½	2½ x 12	3½ — 16-48	3½ — 18-50	1½ x 2½ x 36	45.00	170.50	16.50	12.00
55 H	2½ x 12	2½ x 12½	3½ — 18-48	3½ — 20-50	1½ x 2½ x 36	48.00	193.00	18.00	13.00
56 L	2½ x 11½	2½ x 12	3½ — 16-48	3½ — 18-50	1½ x 2½ x 36	50.00	175.00	18.00	13.00
56 M	2½ x 12	2½ x 12½	3½ — 18-50	3½ — 20-50	1½ x 2½ x 38	55.00	209.50	20.00	14.00
56 H	2½ x 12	3 x 12	3½ — 22-50	3½ — 24-52	1½ x 2½ x 38	60.00	234.00	22.00	15.00

Give distance apart, center to center of springs on axles; and say whether for straight or loop end springs.

ALL PRICES SUBJECT TO DISCOUNT.

LIST PRICES OF SELLER'S GEARS—Continued.*

See illustration on page 321.

Omnibus, Police, Business Wagons, etc.,

Also Gears with Springs and Axles, the Axles Welded, Set and Clipped to Springs and Gears. Top Gears and Spring Bars, Pole and Eveners, Shafts, etc., Ironed Complete.

Gear No.	Concord Axles.	Springs, Oil Tempered, Plain or Ribbed.	Plain Circles.	Front Platform Only. (No Springs or axles)	Gear, Springs and Axles Clipped up.	Top Gear and Spring Bars.	Stiff Pole and Eveners Ironed Complete.	Shafts Ironed Complete.
60 L.	1 1/8 x 7	1 1/2 — 4 & 5—38 x 40	1 1/8 x 1 3/8 x 26	\$16.00	\$37.00	\$6.75	\$7.25	\$4.00
60 M.	1 1/4 x 7	1 1/2 — 5 & 6—38 x 40	1 1/8 x 1 3/8 x 26	16.50	41.00	7.00	7.50	4.50
60 H.	1 3/8 x 7 1/2	1 1/2 — 6 & 7—38 x 40	3/8 x 1 3/8 x 26	17.00	47.00	7.25	7.75	5.00
61 L.	1 1/4 x 7	1 3/4 — 4 & 5—38 x 40	1 1/8 x 1 1/2 x 28	17.00	41.75	7.25	7.50	4.50
61 M.	1 3/8 x 7 1/2	1 3/4 — 5 & 6—38 x 40	1 1/8 x 1 1/2 x 28	17.50	48.00	7.50	7.75	5.00
61 H.	1 1/2 x 8	1 3/4 — 6 & 7—38 x 40	3/8 x 1 1/2 x 28	18.00	53.75	7.75	8.00	5.50
62 L.	1 1/2 x 8	2 — 6 & 7—40 x 42	3/8 x 1 1/2 x 28	18.00	56.25	7.75	8.00	5.50
62 M.	1 5/8 x 8 1/2	2 — 7 & 8—40 x 42	3/8 x 1 1/2 x 28	19.00	62.50	8.00	8.50	6.00
62 H.	1 3/4 x 9	2 — 8 & 9—40 x 42	1 1/8 x 1 1/2 x 28	20.00	72.00	8.50	9.00	6.50

Order Platform Gears by number and letter, giving width of steel, and length of side and cross springs. For wrought drop steps, see page 339.

On page 319 will be found general instructions for ordering, and other information relating to Seller's Platform Gears.

ALL PRICES SUBJECT TO DISCOUNT.

LIST PRICES OF SELLE'S GEARS—Continued.*

See illustration on page 321.

Transfer Trucks, loc Wagons, etc.—

Also Gears with Springs and Axles, the Axles Welded, Set and Clipped to Springs and Gears. Top Gears and Spring Bars, Pole and Eveners, Shafts, etc., Ironed Complete.

Gear No.	Concord Axles.	Springs, Oil Tempered and Ribbed.	Plain Circles.	Front Platform Only, (Nosprings or axles)	Gear, Springs and Axles Clipped up.	Top Gear and Spring Bars.	Stiff Pole and Eveners Ironed Complete.	Shafts Ironed Complete
63 L	1 $\frac{5}{8}$ x 8 $\frac{1}{2}$	2 $\frac{1}{4}$ —7 & 8—40 x 42	3 $\frac{3}{8}$ x 1 $\frac{3}{4}$ x 30	\$20.00	\$67 50	\$8.50	\$8 50	\$6.00
63 M	1 $\frac{3}{4}$ x 9	2 $\frac{1}{4}$ —8 & 9—40 x 42	$\frac{7}{8}$ x 1 $\frac{3}{4}$ x 30	21 50	76 50	9.00	9.00	6.50
63 H	1 $\frac{7}{8}$ x 9 $\frac{1}{2}$	2 $\frac{1}{4}$ —9 & 10—40 x 42	$\frac{1}{2}$ x 1 $\frac{3}{4}$ x 30	23.00	88.00	9.50	9.50	7.00
64 L	1 $\frac{3}{4}$ x 9	2 $\frac{1}{2}$ —8 & 9—40 x 42	$\frac{7}{8}$ x 1 $\frac{3}{4}$ x 30	25.00	82.00	9.50	9.00	6.50
64 M	1 $\frac{7}{8}$ x 9 $\frac{1}{2}$	2 $\frac{1}{2}$ —9 & 10—40 x 42	$\frac{1}{2}$ x 1 $\frac{3}{4}$ x 30	27.00	92.00	10.00	9.50	7.00
64 H	2 x 10	2 $\frac{1}{2}$ —10 & 11—40 x 42	$\frac{1}{8}$ x 1 $\frac{3}{4}$ x 30	29.00	100.00	10.50	10.00	8.00
65 L	1 $\frac{7}{8}$ x 9 $\frac{1}{2}$	2 $\frac{3}{4}$ —9 & 10—40 x 42	$\frac{1}{2}$ x 1 $\frac{3}{4}$ x 30	30.00	94 75	10.50	9.50	7.00
65 M	2 x 10	2 $\frac{3}{4}$ —10 & 11—40 x 42	$\frac{1}{8}$ x 1 $\frac{3}{4}$ x 30	32.00	103 75	11.00	10.00	8.00
65 H	2 $\frac{1}{8}$ x 10 $\frac{1}{2}$	2 $\frac{3}{4}$ —11 & 12—40 x 42	$\frac{1}{8}$ x 2	34.00	114.00	11.50	10.50	9.00
66 L	2 x 10	3—10 & 12—40 x 42	$\frac{1}{2}$ x 2 x 32	35.00	118.25	11.50	10.00	.....
66 M	2 $\frac{1}{8}$ x 10 $\frac{1}{2}$	3—11 & 13—40 x 42	$\frac{3}{8}$ x 2 x 32	37.50	130.00	12.00	10.50	.....
66 H	2 $\frac{1}{4}$ x 11	3—12 & 14—40 x 42	$\frac{3}{8}$ x 2	40.00	141.00	12.50	11.00	.....

Order Platform Gears by number and letter, giving width of steel, length of side and cross springs. For wrought drop steps, see page 339.

On page 319 will be found general instructions for ordering, and other information relating to Selle's Platform Gears.

ALL PRICES SUBJECT TO DISCOUNT.

LIST PRICES OF SELLER'S GEARS—Continued *

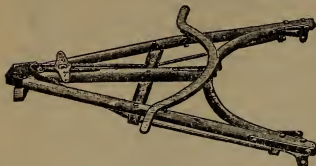
See illustration on page 321.

Gear No.	Concord Axles.		Springs, Oil Tempered and Ribbed.		Plain Circles.	Front Plat- form Only. (No springs or axles)	Gear, Springs and Axles Clipped up.	Top Gear and Spring Bars.	Stiff Pole and Even- ers Ironed Complete.
	Front.	Rear.	Front.	Rear.					
70 L	1½ x 8	1½ x 8½	2 — 6-40	2 — 7-42	1½ x 1½ x 30	\$23.00	\$59.75	\$8.50	\$8.00
70 M	1½ x 8½	1½ x 9	2 — 7-42	2 — 8-44	1½ x 1½ x 32	24.00	66.50	9.00	8.50
70 H	1¾ x 9	1¾ x 9½	2 — 8-42	2 — 10-44	1½ x 1¾ x 32	25.00	76.00	9.50	9.00
71 L	1¾ x 8½	1¾ x 9	2¼ — 7-42	2¼ — 8-44	1½ x 1½ x 32	25.00	70.50	9.50	8.50
71 M	1¾ x 9½	1¾ x 10	2¼ — 8-44	2¼ — 10-46	1½ x 1¾ x 32	26.50	80.75	10.00	9.00
71 H	1¾ x 9½	2	2¼ — 10-44	2¼ — 12-48	1½ x 1¾ x 34	28.00	91.50	10.50	9.50
72 L	1¾ x 9	1¾ x 9½	2½ — 8-44	2½ — 10-46	1½ x 1¾ x 34	28.50	83.50	10.50	9.00
72 M	1¾ x 9½	2	2½ — 10-44	2½ — 12-48	1½ x 1¾ x 34	30.00	93.50	11.00	9.50
72 H	2	2½ x 10½	2½ — 12-46	2½ — 14-48	1½ x 2	32.00	100.75	11.50	10.00
73 L	1¾ x 9½	2	2¾ — 10-44	2¾ — 12-48	1½ x 2 x 34	32.50	99.50	11.50	9.50
73 M	2	2½ x 10½	2¾ — 12-46	2¾ — 14-48	1½ x 2 x 34	34.50	109.50	12.00	10.00
73 H	2½ x 10½	2½ x 11	2¾ — 14-46	2¾ — 16-48	1½ x 2 x 34	36.50	131.50	13.00	10.50
74 L	2 — x 10	2½ x 10½	3 — 12-46	3 — 14-48	1½ x 2 x 36	38.00	116.25	13.00	10.00
74 M	2½ x 10½	2½ x 11	3 — 14-46	3 — 16-48	1½ x 2 x 36	40.00	137.50	14.00	10.50
74 H	2¾ x 11	2½ x 11½	3 — 16-46	3 — 18-48	1½ x 2¼ x 36	42.00	159.00	15.00	11.00
75 L	2¾ x 11	2¾ x 11½	3¼ — 14-46	3¼ — 16-48	1½ x 2 x 36	44.00	145.50	15.00	11.00
75 M	2¾ x 11½	2¾ x 12	3¼ — 16-48	3¼ — 18-50	1½ x 2¼ x 36	47.00	172.50	16.50	12.00
75 H	2¾ x 12	2¾ x 12	3¼ — 18-48	3¼ — 20-50	1½ x 2¼ x 36	50.00	200.00	18.00	13.00

Give distance apart, center to center of springs on axles; state whether straight or loop end springs are to be used
ALL PRICES SUBJECT TO DISCOUNT.

SELLE'S PATENT TRUSSED PLATFORM GEARS—★

Short Turning Gears.



We can furnish gears
Nos 1L to 4H, Nos
10L to 14H, Nos 20L
to 23H and Nos. 35L
to 39H, with short
turning fifth wheel,
with the king bolt 10
to 14 inches back of
center, making the
most satisfactory Short

Turning Gear ever offered to the trade. Regular plat-
form springs being used, repairs are readily obtained
when needed

Add to list price of gears named above, for Short Turning
Fifth Wheel, as follows, according to width of steel in
springs:

Gears with $1\frac{1}{4}$ $1\frac{3}{8}$ or $1\frac{1}{2}$ inch springs, add.....	\$1.00
Gears with $1\frac{3}{4}$ inch springs, add.....	1.50
Gears with 2 inch springs, add.....	2.00
Gears with $2\frac{1}{4}$ inch springs, add.....	3.00
Gears with $2\frac{1}{2}$ inch springs, add.....	4.00

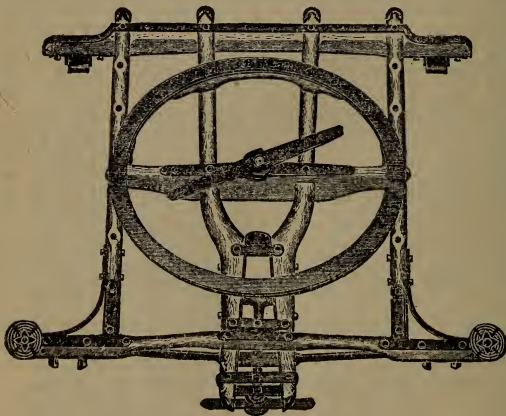


Illustration of Nos. 70L to 75H.

Selle's Platform Truck Gear.

See prices on page 337.

ALL PRICES SUBJECT TO DISCOUNT.

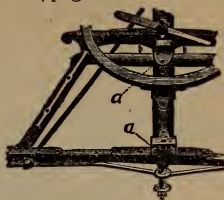
Wrought Drop Steps, for Selle's Gears—★

339

Add to list prices of Gears, pages 322 to 337.



Drop Step.



Stiff Pole Attachment.

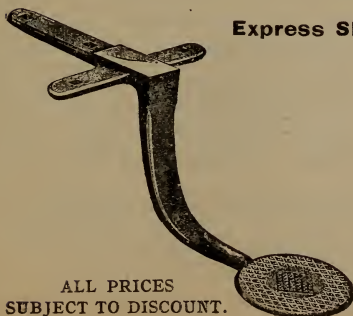
\$2.00	Price per pair.	\$2.75	\$3.50
For Gears		For Gears	For Gears
Nos.		Nos.	Nos.
1L to 4H	13L to 14H	44L to 46H	
5L to 7H	18L to 19H	42BL to 44BH	
10L to 12H	13BL to 14BH	54L to 56H	
15L to 17H	18BL to 19BH	65L to 66H	
10BL to 12BH	23L to 24H	74L to 75H	
15BL to 17BH	28L to 29H		
20L to 22H	33L to 34H		
25L to 27H	38L to 39H		
30L to 32H	40BL to 41BH		
35L to 37H	42L to 43H		
40L to 41H	52L to 53H		
50L to 51H	63L to 64H		
60L to 62H	72L to 73H		
70L to 71H			

Selle's Gears
with wrought
Drop Steps
are made to
order only.

Stiff Pole Attachments, for Selle's Gears—★

For Nos. 10L to 19H and 10BL to 19BH Gears.

On Gears for 1½-in Springs, add to list price	\$1.25
" " 1¾ " " "	 1.50
" " 2 " " "	 1.75
" " 2¼ " " "	 2.00



Express Shaft Steps—★

Wrought

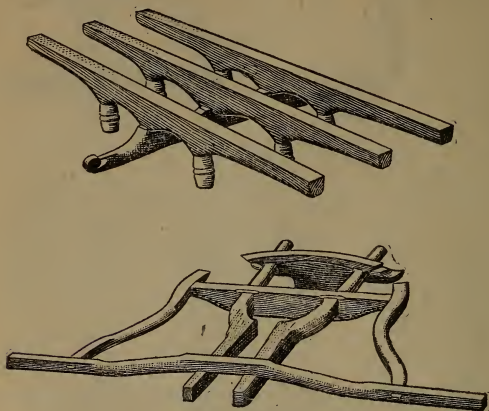
Forged.

9-in. Drop.

4¾-in. Pad.

\$2.00 per pair.

ALL PRICES
SUBJECT TO DISCOUNT.

New York Platform Gear Woods—★

The Futchels, Hawns and Splinter Bars are XXX hickory, the heavier parts are second growth ash or choice oak. The sets as listed below include a Rear Spring Bar and Wood Spring Blocks—23 pieces of wood work in all, finished ready for ironing.

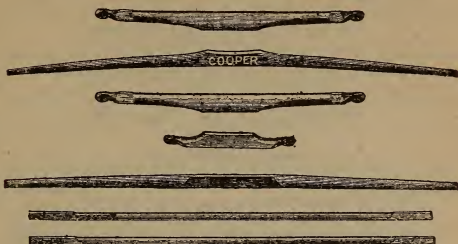
Size.	Capacity, lbs.	Axles, ins.	Springs.	Circle.	Price.
A,	1000 to 1500	$1\frac{1}{4}$ to $1\frac{3}{8}$	$1\frac{1}{2}$ x38x40	$1\frac{1}{4}$ x $\frac{3}{8}$ x24	\$5.85
B,	2000 to 3000	$1\frac{1}{2}$ to $1\frac{5}{8}$	2 x38x40	$1\frac{1}{2}$ x $\frac{7}{8}$ x28	6.75
C,	3000 to 4000	$1\frac{5}{8}$ to $1\frac{3}{4}$	$2\frac{1}{4}$ x40x42	$1\frac{3}{4}$ x $1\frac{1}{2}$ x32	7.60
D,	5000 to 6000	$1\frac{7}{8}$ to 2	$2\frac{1}{2}$ x40x42	2 x $1\frac{1}{8}$ x32	9.00

We carry in stock the necessary forgings for these Gear Woods: Platform Circles, Bolster or Transom Plates, Splinter Bar Shackles, Body Couplings, all of which may be found on their respective pages in this catalogue.

ALL PRICES SUBJECT TO DISCOUNT.

FINISHED WOOD GEARING.

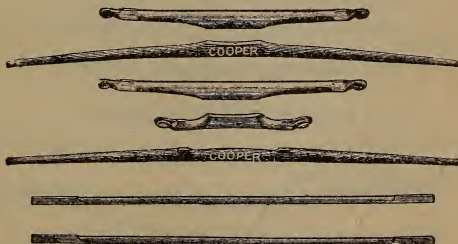
Complete Sets. See prices on pages 346 and 347.



Set No. 1. For Elliptic Spring, for patent gear irons.



Set No. 2. Elliptic Spring, for patent gear irons

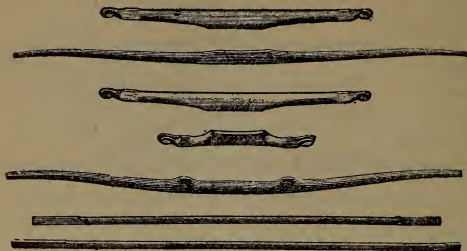


Set No. 3. Elliptic Spring, Derby Circle.

ALL PRICES SUBJECT TO DISCOUNT.

Finished Wood Gearing—Continued.

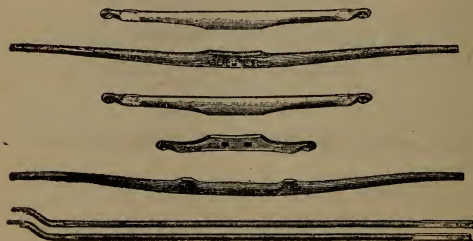
Complete Sets. See prices on pages 346 and 347.



Set No. 4. Elliptic Spring, Derby Circle.



Set No. 3½. Elliptic Springs.

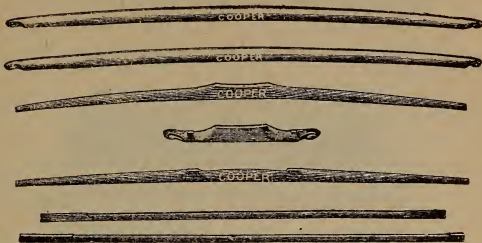


Set No. 4½. Elliptic Springs.

ALL PRICES SUBJECT TO DISCOUNT.

Finished Wood Gearing—Continued.

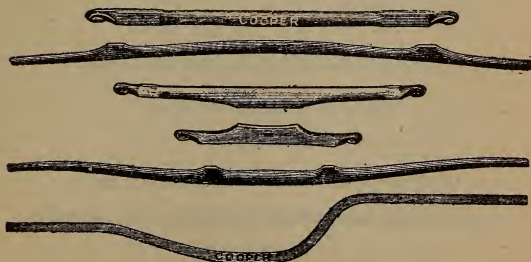
Complete Sets. See prices on pages 346 and 347.



Set. No 5. Brewster.



Set No. 16. Phaeton.

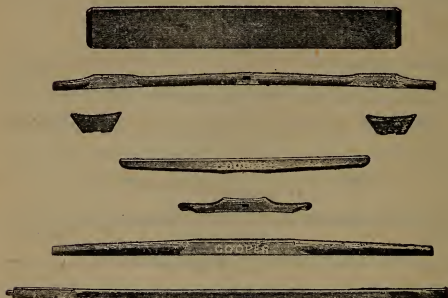


Set No. 17. Three-Spring Phaeton.

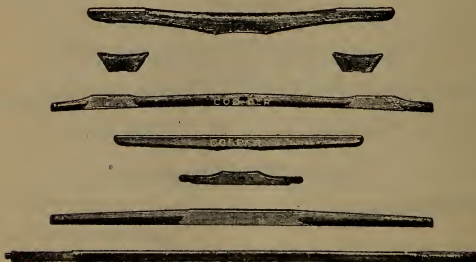
ALL PRICES SUBJECT TO DISCOUNT.

Finished Wood Gearing—Continued.

Complete Sets. See prices on pages 346 and 347.



Set No. 26. Three-Spring Wagon.

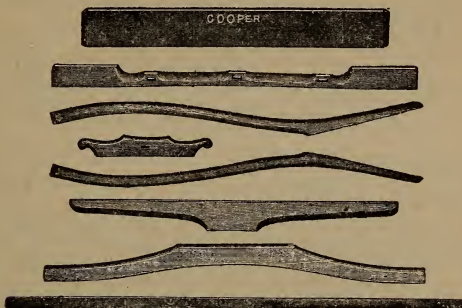


Set No. 27. Combination Wagon.

ALL PRICES SUBJECT TO DISCOUNT.

Finished Wood Gearing, Complete Sets,
Continued—★

Set No. 25. Express Wagon with Hawns.



Front Axle arches $2\frac{1}{2}$ -inch. Hind axle arches $\frac{1}{2}$ -inch.

XX XXX

$1\frac{1}{8}$ or $1\frac{1}{4}$ in. Axle, $1\frac{1}{2}$ in. Front Spring	\$2.92	\$3.30	per set.
$1\frac{3}{8}$ in. Axle, $1\frac{3}{4}$ in. Front Spring.....	3.40	3.85	"
$1\frac{1}{2}$ in. Axle, 2 in. Front Spring.....	3.65	4.15	"
$1\frac{3}{4}$ in. Axle, $2\frac{1}{2}$ in. Front Spring.....	4.45	5.00	"
A set consists of Two Axle Beds, One Head Block, One Pair Hawns, One Front Spring Bar, One Back Spring Bar, One Reach.			

Set No. 26. Three-Spring Wagon.

See illustration on page 344.

Front Axle Straight. Hind Axle Arches $\frac{1}{2}$ -inch.

XX XXX

$1\frac{1}{8}$ or $1\frac{1}{4}$ in. Axles, with $1\frac{1}{2}$ Front and $1\frac{1}{4}$ in. Hind Springs.....	\$1.68	\$1.89	per set.
$1\frac{3}{8}$ in. Axles, with $1\frac{3}{4}$ Front and $1\frac{1}{2}$ in. Hind Springs.....	2.11	2.35	"
$1\frac{1}{2}$ in. Axles, with 2 in. Front and $1\frac{3}{4}$ in. Hind Springs.....	2.60	2.92	"

ALL PRICES SUBJECT TO DISCOUNT.

Finished Wood Gearing, Complete Sets—*

See illustrations on pages 341 to 344.

Set No. 1. Elliptic Spring for Patent Gear Irons. Front axle arches 1-inch. Hind axle arches 1-inch.

Set No. 2. Elliptic Spring for Patent Gear Irons. Front axle drops 1-inch. Hind axle drops 1-inch.

Set No. 3. Elliptic Spring for Derby Circle. Front axle arches $\frac{1}{2}$ -inch. Hind axle arches 1-inch.Set No. 4. Elliptic Spring for Derby Circle. Front axle drops $1\frac{1}{2}$ -inch. Hind axle drops 1-inch.

	XX	XXX	2d growth.
For two passenger.....	\$1.10	\$1.24	\$2.04 per set.
For four passenger.....	1.36	1.50	2.60 "

Nos 1, 2, 3 and 4 Sets consist of Two Axle Beds, Two Spring Bars, Two Reaches, One Head Block.

Set No $3\frac{1}{2}$. Elliptic Spring. Front axle arches $\frac{1}{2}$ -inch. Hind axle arches 1-inch.Set No. $4\frac{1}{2}$. Elliptic Spring. Front axle drops $1\frac{1}{2}$ -inch. Hind axle drops 1-inch.

	XX	XXX	2d growth.
For two-passenger.....	\$1.28	\$1.42	\$2.30 per set.
For four-passenger....	1.58	1.72	2.92 "

Nos. $3\frac{1}{2}$ and $4\frac{1}{2}$ sets consist of Two Axle Beds, Two Spring Bars, Two Bent Brewster Reaches, One Head Block mortised.

Bevel front bars can be furnished on all above four-passenger sets at same price if so ordered.

Set No. 5. Brewster Spring Gearing. Front axle arched $\frac{1}{2}$ -inch. Hind axle arched 1-inch.

	XX	XXX	2d growth.
For two-passenger.....	\$1.68	\$1.88	\$2.90 per set.
For four-passenger....	2.12	2.42 "	3.88 "

A set consists of Two Axle Beds, Two Side Bars, One Head Block, Two straight Reaches.

Set No. 16. Phaeton. Front axle drops $1\frac{1}{2}$ -inch. Hind axle arches 1-inch. For 6-inch difference in height of wheels.

	XX	XXX	2d growth.
With 1-inch Reach....	\$1.50	\$1.64	\$2.40 per set.
With $1\frac{1}{2}$ -inch Reach .	1.56	1.70	2.55 "

A set consists of Two Axle Beds hind one mortised, One Head Block mortised, Two Spring Bars, One Reach.

Set No. 17. Three-Spring Phaeton. Front axle drops $1\frac{1}{2}$ inch. Hind axle arches 1-inch. For 6-inch difference in height of wheels.

	XX	XXX	2d growth.
With 1-inch Reach ...	\$1.96	\$2.08	\$3.02 per set.
With $1\frac{1}{2}$ -inch Reach .	2.02	2.14	3.17 "

A set consists of Two Axle Beds, One Head Block mortised, One Front Spring Bar, One Back Spring Bar, One Reach.

Prices continued on next page.**ALL PRICES SUBJECT TO DISCOUNT.**

Finished Wood Gearing, Complete Sets—★

See illustrations on pages 341 to 344.

Prices continued.

Set No. 27. Combination Wagon. Front axle straight.
Hind axle arches $\frac{1}{2}$ -inch.

	XX	XXX
1½ or 1¼ Axle, 1½ in. Front Spring	\$1.68	\$1.89 per set.
1½ in. Axle, 1¼ in. Front Spring ..	2.16	2.40 "
1½ in. Axle, 2 in. Front Spring....	2.70	3.07 "
A set consists of One Front Axle Bed, One Back Axle Bed mortised, One Head Block mortised, One Front Spring Bar, One Back Spring Bar, Two Spring Blocks, One Reach.		

Ironed-up Reaches—

Part No. 400, for Set No. 40.

Has Malleable Head Block Plate and Reach Heels, all other irons being wrought.



	Each		
	XX	XXX	2d gro.
Part C, for two passenger, 10x9-16 inch Derby Circle, $\frac{3}{4}$ x $\frac{3}{4}$ inch reaches, for No. 1 King Bolt.....	\$1.75	\$1.85	\$2.10
Part D, for two passenger, 12x11-16 inch Derby Circle, $\frac{1}{2}$ x $\frac{3}{4}$ inch reaches, for No. 2 King Bolt.....	1.75	1.85	2.10
Part E, for four passenger, 12x $\frac{3}{4}$ inch Derby Circle, $\frac{1}{2}$ x $\frac{1}{2}$ inch reaches, for No. 3 King Bolt.....	2.80	2.40	2.85

Ironed-up Gears and Parts—★"Old Reliable"
Set No. 40.

"Old Reliable" Set No. 40, with Derby Circle, Sets C, D and E. This Set consists of Bent Reaches mortised into the Head Block and ironed throughout with steel plates. Derby Fifth Wheel and reach heels on. Axle Beds, Spring Bars, King Bolt, Yoke and Double Brace taking two bolts in each reach, and a pair of Steel Stay Braces, *all fitted ready to go together as illustrated*. All irons are wrought excepting Head Block Plate and Reach Heels, which are the best of malleable iron.

	Per set		
	XX	XXX	2d gro.
Set C, for two passenger, 10x9-16 inch Derby Circle, $\frac{3}{4}$ x $\frac{3}{4}$ inch reaches, for No. 1 King Bolt.....	\$3.20	\$3.33	\$4.23
Set D, for two passenger, 12x $\frac{5}{8}$ inch Derby Circle, $\frac{1}{2}$ x $\frac{3}{4}$ inch reaches, for No. 2 King Bolt.....	3.20	3.33	4.23
Set E, for four passenger, 12x $\frac{3}{4}$ inch Derby Circle, $\frac{1}{2}$ x $\frac{1}{2}$ inch reaches, for No. 3 King Bolt.....	4.09	4.27	5.44

ALL PRICES SUBJECT TO DISCOUNT.

FINISHED WOOD GEARING.

Separate Pieces—★

AXLE BEDS.

Regular Buggy Size for $\frac{7}{8}$ and 15-16 in. axles.

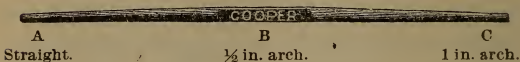
Nos. 100 and 101 are $1\frac{1}{4}$ in. deep at outer ends of circle rests, $\frac{5}{8}$ in. deep at ends.

Nos. 102 and 103 are $1\frac{1}{2}$ in. deep at outer ends of circle rests, $\frac{5}{8}$ in. deep at ends.

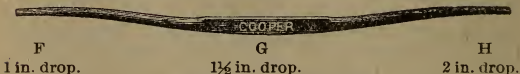
Nos. 104 and 105 are $1\frac{1}{2}$ in. deep at outer ends of spring seats, $\frac{5}{8}$ in. deep at ends.

Four-passenger work is 3-16 in. deeper throughout.

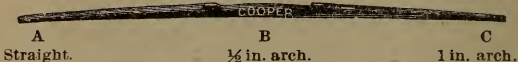
No. 100.



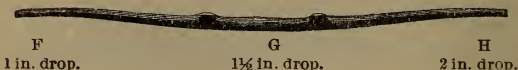
No. 101.



No. 102.



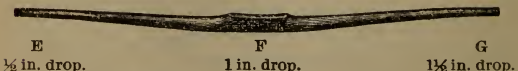
No. 103.



No. 104.



No. 105.



Prices, Nos. 100 to 105.

Two-passenger.....	XX \$0.22	XXX \$0.24	2d growth. \$0.40 each.
Four-passenger.....	0.24	0.26	0.50 "

ALL PRICES SUBJECT TO DISCOUNT.

Finished Wood Gearing,

Separate pieces, continued—★

SPRING BARS, continued.

For Three-spring Phaeton.

No. 152.	Size A.	Size B.
	26 in.	30 in. inside of body loops.
	32 in.	36 in. center to center of springs.
Price. XXX, \$0.70; 2d gro., \$1.00 each.		



Combination Back Bar.

No. 156.	XX	XXX	2d gro. Ash.
1½ and 1½x42 in.	\$0.30	\$0.35	\$0.35 each.



Express Front Bar.

No. 157.	XX	XXX	2d gro. Ash.
1½x4¼x44 in.	\$0.36	\$0.40	\$0.40 each.
1¾x4¼x44 in.	.40	.45	.45 "
2x4¼x44 in.	.50	.60	.60 "
2½x5x48 in.	.65	.75	.75 "



Three-Spring Hind Bar.

No. 158.	XX	XXX	2d gro. Ash.
1 and 1½x5x48 in.	\$0.30	\$0.35	\$0.35 each.
1¼x5x48 in.	.35	.40	.40 "
1¾x6x48 in.	.40	.45	.45 "



Spring Wagon or Duplex.

No. 159.	XX	XXX	2d gro. Ash.
1¼ and 1¾x1½x36 in.	\$0.16	\$0.18	\$0.18 each.
1½x2½x36 in.	.20	.22	.22 "
1¾x2½x42 in.	.22	.24	.24 "
1½x3x42 in.	.24	.26	.26 "

ALL PRICES SUBJECT TO DISCOUNT.

Finished Wood Gearing,

Separate pieces, continued—★

HEAD BLOCKS.

No. 180. Bottom cut out from circle bearing, and back to straight line at center.



No. 181. Bottom cut out full length between circle bearings.
 Prices. Nos. 180 and 181. XX XXX 2d gro. Ash.
 1¼ and 1¾ in. spring\$0.16 \$0.20 \$0.25 each.
 1½ in. spring18 .22 .30 "

If mortised, add 2 cents to list for each mortise.



No. 182. Straight bottom tapered at ends for Derby or Brewster circle.



No. 183. For Patent Gear Irons, not tapered at ends.
 Prices. Nos. 182 and 183. XX XXX 2d gro. Ash.
 1¼ and 1¾ in. springs\$0.14 \$0.16 \$0.24 each.
 1½ in. spring16 .18 .23 "
 1¾ in. "24 .26 .35 "

If mortised, add 2 cents to list for each mortise.



No. 184. For Express Gearing.
 Prices. XX XXX 2d gro. Ash.
 1½ in. spring.....\$0.30 \$0.35 \$0.35 each.
 1¾ in. "35 .40 .40 "
 2 in. "40 .45 .45 "
 2½ in. "50 .60 .60 "

REACHES.

No. 200. Plain, Straight. XX XXX 2d gro.
 O. ¾x¾x58 in. and under\$0.10 \$0.12 \$0.18 each.
 A. ¾x¾x58 in. " "10 .12 .18 "
 A.A. ¾x¾x62 in. " "12 .14 .20 "
 B. ¾x1 and 1x1x62 in. and under.... .14 .16 .30 "
 C. ¾x¾x72 in. and under..... .14 .16 .30 "
 D. ¾x1 and 1x1x72 in. and under.... .16 .18 .30 "
 E. 1x1½ and 1½x1½x72 in. and under .18 .20 .36 "

When tenoned add to list 2 cents for each tenon.

If spotted for bolts add 4 cents to the list.

ALL PRICES SUBJECT TO DISCOUNT.

Finished Wood Gearing,

Separate pieces, continued—★

REACHES, continued.

Spring Wagon Reach,

No. 201.	XX	XXX	2d gro. Ash.
F. $1\frac{1}{8} \times 1\frac{1}{4}$ and $1\frac{1}{4} \times 1\frac{1}{4} \times 78$ in. and under.	\$0.22	\$0.24	\$0.24 each.
G. $1\frac{1}{4} \times 1\frac{3}{8}$ and $1\frac{3}{8} \times 1\frac{1}{2} \times 78$ in. " " .	.24	.26	.26 "
H. $1\frac{3}{8} \times 1\frac{1}{2}$ and $1\frac{1}{2} \times 1\frac{1}{2} \times 78$ in. " " .	.28	.30	.30 "

Brewster Bent Reaches.No. 201 $\frac{1}{2}$. $1\frac{1}{4}$ in. drop for Derby circle.No. 202. $1\frac{3}{4}$ in. drop for Brewster circle.We send No. 202, unless No. 201 $\frac{1}{2}$ is specified.

	XX	XXX	2d gro.
A. $\frac{3}{4} \times \frac{3}{4} \times 60$ in.	\$0.36	\$0.40	\$0.60 per pair.
B. $\frac{7}{8}$ wide $\times \frac{3}{4}$ deep $\times 60$ in.	.36	.40	.60 "
C. $\frac{7}{8} \times \frac{7}{8} \times 60$ in.	.36	.40	.60 "
C.C. $1 \times 1 \times 62$ in. and under.....	.40	.44	.66 "
D. $\frac{7}{8} \times \frac{7}{8} \times 72$ in.	.48	.52	.90 "
E. $1 \times 1 \times 76$ in.	.65	.75	.90 "

Phaeton Bent Reach.

No. 203.	XX	XXX	2d gro.
A. 1 inch.....	\$0.44	\$0.48	\$0.72 each.
B. $1\frac{1}{8}$ inch.....	.50	.54	.80 "

If spotted for bolts add 15 cents to list.

Regular Phaeton Reach.

No. 7. Unfinished.	XXX	2d gro.
A. $1 \times 1 \times 63$ in.	\$0.36	\$0.45
B. $1\frac{1}{2} \times 1\frac{1}{8} \times 63$ in.	.40	.50

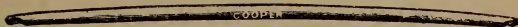
Express Wagon Reach.

No. 207.	XX	XXX	2d gro. Ash.
K. $1\frac{1}{2} \times 1\frac{3}{4}$ in.	\$0.36	\$0.40	\$0.40 each.
L. $1\frac{3}{4} \times 2$ in.	.40	.50	.50 "
M. $2 \times 2\frac{1}{2}$ in.	.50	.60	.60 "

ALL PRICES SUBJECT TO DISCOUNT.

Finished Wood Cearing,

Separate pieces, continued—★

SIDE BARS.

Brewster Side Bar.

No. 164.	XX	XXX	2d gro.
Buggy	\$0.90	\$1.00	\$1.50 per pair.
Surrey	1.20	1.40	2.00 "

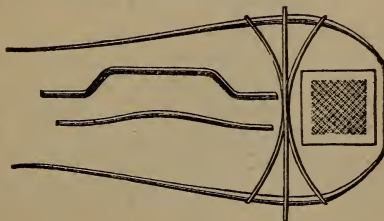
EXPRESS HAWNS.

Express Wagon Haws.

XXX	1¼ in.	1½ in.	1¾ in.	1¾ in.
	\$0.60	\$0.70	\$0.80	\$1.00 per pair.

SPRING BLOCKS.

1¼ and 1½ in. XXX	16c. per pair.
1½ in., XXX	18c. "
1¾ in., XXX	20c. "

**Finished Sulky Cearing—**

Second Growth. With axle bed, cane seat and Singletree,	
ready to iron	\$16.80 per set.
Sulky Axle Beds, finished	\$0.70 each.
" " " high bend, rough, \$1.00; finished.	1.75 "
" Cane Seats, finished	1.05 "

ALL PRICES SUBJECT TO DISCOUNT.

Rough Hickory Gearing—★

Price per dozen.

REACHES.

Brewster Bent.

	XXX	B. H.	2d gro.
$\frac{7}{8}$ in. square, one seat	\$2.20	\$3.05	\$4.15
1 in. square, two seat	3.30	3.85	5.25
$1\frac{1}{8}$ in. square, two seat	4.40	5.25	6.60
$1\frac{1}{4}$ in. square, two seat	5.50	6.25	7.50

Phaeton Bent.

No. 1. $\frac{7}{8} \times 1\frac{1}{8}$ in., 66 in. long	2.75	3.45	5.15
" 2. $1 \times 1\frac{1}{8}$ in., 66 in. long	3.30	3.85	5.50
" 3. $1\frac{1}{8} \times 1\frac{1}{4}$ in., 84 in. long	4.25	5.75	8.00

Straight Reaches.

1 to $1\frac{1}{8}$ in.	1.35	2.00	3.00
$1\frac{1}{4}$ to $1\frac{1}{2}$ in.	2.00	2.50	4.00

AXLE BEDS.

Straight, $1\frac{1}{2} \times 2\frac{1}{4}$ in., 54 in. long	2.75	3.20	5.25
Bent, $1\frac{5}{8} \times 2\frac{1}{4}$ in., 54 in. long	3.00	3.95	6.00
Sawed, $1\frac{5}{8} \times 2\frac{1}{4}$ in., 54 in. long	3.50	4.95	7.00

HEAD BLOCKS.

$1\frac{5}{8} \times 2\frac{1}{4}$ in., 20 in. long	1.00	1.30	2.00
---	------	------	------

SPRING BARS.

$1\frac{1}{2} \times 2$ in.	1.15	2.00	2.85
$1\frac{5}{8} \times 2\frac{1}{4}$ in.	1.25	2.10	3.00

SIDE BARS.

Sawed, $1\frac{5}{8} \times 2$ in. 72 in. long	3.75	4.75	8.00
" $1\frac{3}{4} \times 2\frac{1}{2}$ in. 78 in. long	6.40	7.40	11.00

ROUGH HICKORY GEARING IN SETS.

Price per set.

6 pieces, Straight axle beds	1.00	1.35	2.00
6 " Sawed axle beds	1.15	1.50	2.30
6 " Bent axle beds	1.15	1.50	2.30
8 " Side springs	1.50	2.00	2.45
7 " Side bar, with Brewster Bent Reaches	1.75	2.25	3.75

Coach Beds, Rough—

Regular patterns. Second growth

Ash. All 2 inches thick.

2 in. wide	\$0.85 each.	$4\frac{1}{2}$ in. wide	\$1.92 each.
$2\frac{1}{2}$ " "	1.07 " "	5 " "	2.13 " "
3 " "	1.28 " "	$5\frac{1}{2}$ " "	2.34 " "
$3\frac{1}{2}$ " "	1.50 " "	6 " "	2.55 " "
4 " "	1.70 " "		



In ordering give width and thickness of wood wanted and the bend, measuring inside to a straight line running the whole length. If you draw a pattern do not cut the paper to the shape but send the paper full width so it will retain the shape of pattern.

"New Century" Road Carts—

Completely ironed in the white\$15.00 each.

Painted and Trimmed 16.50 "

ALL PRICES SUBJECT TO DISCOUNT.

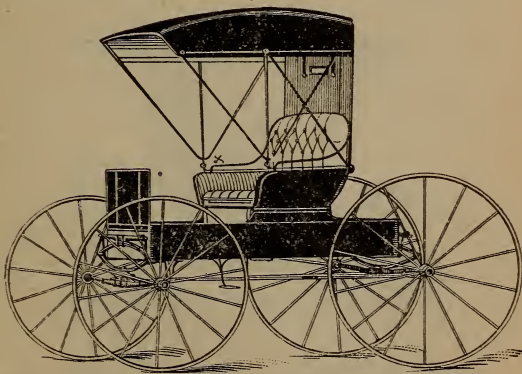
COMPLETELY IRONED JOBS.

IN-THE-WHITE, READY TO PAINT AND TRIM.

See descriptions and prices on pages 361 and 362.

The illustrations following, on pages 355 to 360, show these Jobs as they appear when completely finished, trimmed and painted, but our prices are for the JOBS IRONED IN THE WHITE NOT PAINTED NOR TRIMMED.

We cannot furnish them painted, but can supply TOPS AND TRIMMINGS complete when desired and will be pleased to quote prices.



No. 2½. Piano Body Elliptic Spring Buggy.
ALL PRICES SUBJECT TO DISCOUNT.

Completely Ironed Jobs—Continued.

IN-THE-WHITE, READY TO PAINT AND TRIM.

See descriptions and prices on pages 361 and 362.



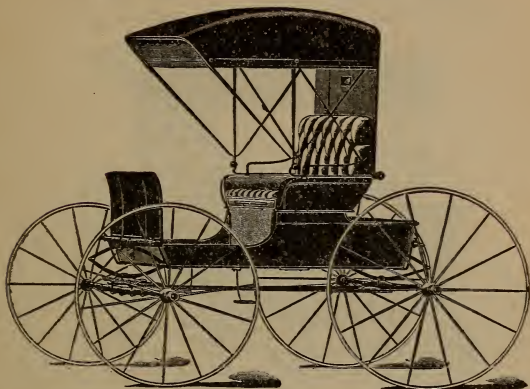
No. 9. Corning Body Elliptic Spring Buggy.

No. 107. Piano Body Elliptic Spring Buggy. Best Grade.
ALL PRICES SUBJECT TO DISCOUNT.

Completely Ironed Jobs—Continued.

IN-THE-WHITE, READY TO PAINT AND TRIM.

See descriptions and prices on pages 361 and 362.



No. 209. Corning Body Elliptic Spring Buggy. Best Grade.



No. 125. Stanhope Elliptic Spring Buggy. Best Grade.
ALL PRICES SUBJECT TO DISCOUNT.

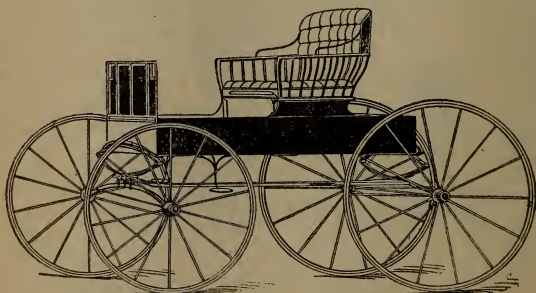
Completely Ironed Jobs—Continued.

IN-THE-WHITE, READY TO PAINT AND TRIM.

See descriptions and prices on pages 361 and 362.



No. 62. Elliptic Spring Phaeton.

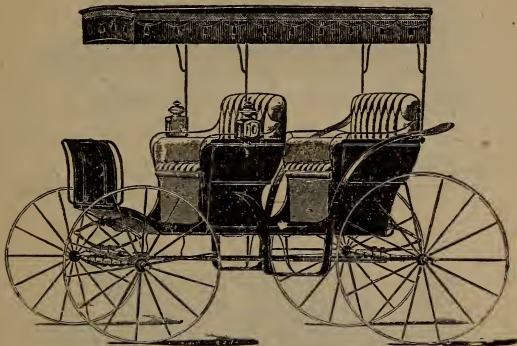


No. 141. Elliptic Spring Bike Wagon.
ALL PRICES SUBJECT TO DISCOUNT.

Completely Ironed Jobs--Continued.

IN-THE-WHITE, READY TO PAINT AND TRIM.

See descriptions and prices on pages 361 and 362.



No. 175. Straight Sill Stanhope Style Elliptic Spring Surrey.

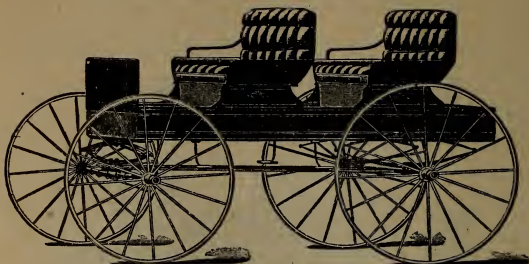


No. 297. Elliptic Spring Cut-under Surrey.
ALL PRICES SUBJECT TO DISCOUNT.

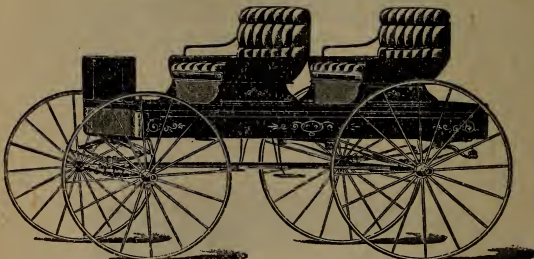
Completely Ironed Jobs, Continued.

IN-THE-WHITE, READY TO PAINT AND TRIM.

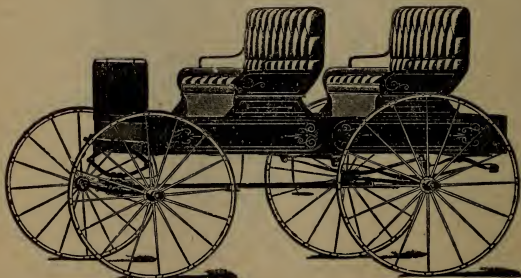
See descriptions and prices on page 362.



No. 203. Three-spring Wagon.



No. 205. Combination Spring Wagon.



No. 207. Combination Spring Wagon.
ALL PRICES SUBJECT TO DISCOUNT.

COMPLETELY IRONED JOBS.

IN-THE-WHITE, READY TO PAINT AND TRIM.

Including Dash, Wheels and Shafts.

See illustrations, pages 355 to 360.

No. 2½. ELLIPTIC SPRING BUGGY.

Piano box body, 20, 22 or 24 in. wide, 54 in. long;
concave seat risers, double reach gear; 15-16 in.
axles; Sarven patent, banded or Warner wheels \$41.00
With Bailey body loops at same price.

No. 9. ELLIPTIC SPRING BUGGY.

Same description as No. 2½, but with Corning
body.....\$41.00

No. 107. BEST GRADE ELLIPTIC SPRING BUGGY.

Piano box body, 20, 22 or 24 in. wide, 54 in. long;
with Bailey body loops; double reach gear; full
Brewster slotted fifth-wheel; 15-16 in. long dis-
tance axles; Sarven patent, banded or Warner
wheels.....\$51.00

No. 209. BEST GRADE ELLIPTIC SPRING BUGGY.

Same description as No. 107, but with Corning
body.....\$53.00

No. 62. PHAETON.

Elliptic springs; single reach gear; full ironed;
Sarven patent or banded wheels.....\$60.00
Lamps and fenders extra.

No. 141. BEST GRADE BIKE WAGON.

Body 24x56 in.; seat with double bent spindles and
high back; Bailey body loops; gear with open
head elliptic springs; Brewster slotted fifth-
wheel; long distance axles; patent shaft coup-
lings; banded wheels, 36 and 40 in. high over
all, with ¾ in. solid rubber tires.....\$77.50

No. 125. BEST GRADE STANHOPE.

Body new design with wide and roomy seat; ellip-
tic springs; gear with full Brewster slotted fifth-
wheel; long distance axles; banded wheels 42
and 46 in. high, ¾ in. tread.....\$66.00

No. 175. STRAIGHT SILL SURREY.

Body, Stanhope style; seats with deep panels,
high backs and round corners; gear, with open
head springs, with Brewster slotted fifth-wheel;
axles, 1½ in.; wheels, Sarven patent or banded \$78.00

This job can be furnished with either canopy
or extension top.

No. 297. CUT-UNDER SURREY.

Body 29 in. wide; seats with deep panels and
round corner lazy backs; takes 3 ft. 7 in. bows;
gears, elliptic springs; double reaches; wheels,
Sarven patent or banded; 1½ in. axles.....\$73.50

Tops, lamps and fenders extra on all Surrey jobs.

ALL PRICES SUBJECT TO DISCOUNT.

Completely Iron Jobs.—Continued.

IN-THE-WHITE, READY TO PAINT AND TRIM.

See illustrations, page 360.

No. 203. THREE-SPRING WAGON.

Body 35x84 in., framed and with heavy ironed corners; end gate with combination snap fasteners and outside brace; seats with convex panels and solid panel backs; gear, elliptic springs, double reaches with heavy short-turn fifth-wheel; 1½ in. axles; Sarven patent wheels with 1½ in. tread\$57.50

No. 205. COMBINATION SPRING WAGON.

Same description as No. 203, but with platform springs in rear instead of elliptic springs.....\$60.00

No. 207. COMBINATION SPRING WAGON.

Body 35x84 in.; framed panels with large ovals sunk in panels and heavy iron corners; end gate with combination snap fastener and outside brace; seats extra wide with deep side panels and solid panel backs; gear with double reach and heavy short-turn fifth-wheel; 1½ in. axles; elliptic spring in front, platform spring in rear; Sarven patent wheels riveted; 1½ in. tread ...\$63.00

We can furnish Tops and complete Trimmings for all above jobs and will quote prices if desired.

In addition to the above we carry a line of THREE-SPRING DELIVERY WAGONS with or without tops. Full descriptions, illustrations and prices furnished upon request.

IRONED GEARS.

Ready for Body, Wheels and Shafts.

The styles of these gears may be seen in the illustrations of Completely Ironed Jobs of corresponding Nos.

No. 2½.	For Elliptic Spring Buggy.....	\$12.50
" 107.	" " " "	16.50
" 62.	" Phaeton.....	15.00
" 125.	" Stanhope.....	16.50
" 175.	" Straight Sill Surrey.....	21.00
" 297.	" Cut-under Surrey.....	17.00
" 141.	" Bike Wagon.....	17.00
" 203.	" Three-Spring Wagon	18.00
" 205.	" Combination Spring Wagon	20.00

ALL PRICES SUBJECT TO DISCOUNT.

ILLUSTRATIONS OF IRONED GEARS.

Ready for Body, Wheels and Shafts.

See prices on pages 364 and 365.



Half Platform Gears, with Trussed Reach.

Nos. 111A, 112A, 113A and 114A.



Half Platform Gears, with Trussed Reach.

Nos. 111B, 112B, 113B and 114B.



Three-Spring Gears, with Trussed Reach.

Nos. 131A, 132A, 133A and 134A.



Three-Spring Gears, with Trussed Reach.

Nos. 131B, 132B, 133B and 134B.

IRONED GEARS, Continued.

See Illustrations on page 363.

Half Platform Gears, with Trussed Reach—★

Nos. 111A, 112A, 113A and 114A.

For wheels, 4 inches difference in height.

Gear No. 111A.		Price.
Front Elliptic Spring, $1\frac{1}{2} \times 4 \times 36$	}	\$22.00
Rear Springs, $1\frac{1}{2} \times 4$ & 5—38 & 40 or 40 & 42...		
Half Patent Axles, $1\frac{1}{8} \times 7$		
Length, center to center of Axles, 5 ft.....		
If wanted with Spring Bars ready for Body add to price \$1.50.		
Gear No. 112A.		
Front Elliptic Spring, $1\frac{1}{2} \times 5 \times 36$	}	\$26.50
Rear Springs, $1\frac{1}{2} \times 5$ & 6—38 & 40 or 40 & 42...		
Half Patent Axles, $1\frac{1}{4} \times 7$		
Length, center to center of Axles, 5 ft. 4 in.....		
If wanted with Spring Bars ready for Body add to price \$1.75.		
Gear No. 113A.		
Front Elliptic Spring, $1\frac{3}{4} \times 6 \times 36$	}	\$35.50
Rear Springs, $1\frac{3}{4} \times 5$ & 6—38 & 40 or 40 & 42...		
Concord Axles, $1\frac{1}{8} \times 7\frac{1}{2}$		
Length, center to center of Axles, 5 ft. 8 in.....		
If wanted with Spring Bars ready for Body add to price \$2.00.		
Gear No. 114A.		
Front Elliptic Spring, $2 \times 6 \times 36$	}	\$42.00
Rear Springs, $1\frac{3}{4} \times 6$ & 7—40 & 42.....		
Concord Axles, $1\frac{1}{2} \times 8$		
Length, center to center of Axles, 6 ft.....		
If wanted with Spring Bars ready for Body add to price \$2.25.		
Nos. 111B, 112B, 113B and 114B.		
For wheels, 36 inches Front and 48 inches Hind.		Price.
Gear No. 111B.		
Front Elliptic Spring, $1\frac{1}{2} \times 5 \times 36$	}	\$26.50
Rear Springs, $1\frac{1}{2} \times 4$ & 5—38 & 40 or 40 & 42...		
Concord Axles, $1\frac{1}{8} \times 7$		
Length, center to center of Axles, 5 ft.....		
If wanted with Spring Bars ready for Body add to price \$1.50.		
Gear No. 112B.		
Front Elliptic Spring, $1\frac{1}{2} \times 5 \times 36$	}	\$31.00
Rear Springs, $1\frac{1}{2} \times 5$ & 6—38 & 40 or 40 & 42...		
Concord Axles, $1\frac{1}{4} \times 7$		
Length, center to center of Axles, 5 ft. 4 in.....		
If wanted with Spring Bars ready for Body add to price \$1.75.		
Gear No. 113B.		
Front Elliptic Spring, $1\frac{3}{4} \times 6 \times 36$	}	\$37.00
Rear Springs, $1\frac{3}{4} \times 5$ & 6—38 & 40 or 40 & 42...		
Concord Axles, $1\frac{1}{8} \times 7\frac{1}{2}$		
Length, center to center of Axles, 5 ft. 8 in.....		
If wanted with Spring Bars ready for Body add to price \$2.00.		
Gear No. 114B.		
Front Elliptic Spring, $2 \times 6 \times 36$	}	\$44.00
Rear Springs, $1\frac{3}{4} \times 6$ & 7—40 & 42.....		
Concord Axles, $1\frac{1}{2} \times 8$		
Length, center to center of Axles, 6 ft.....		
If wanted with Spring Bars ready for Body add to price \$2.25.		

ALL PRICES SUBJECT TO DISCOUNT.

IRONED GEARS, Continued.

See Illustrations on page 363.

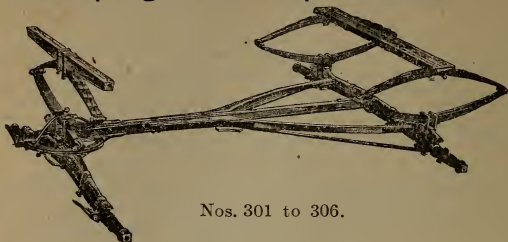
Three-Spring Gears, with Trussed Reach—★

Nos. 131A, 132A, 133A and 134A.

For wheels, 4 inches difference in height.

	Price.
Gear No. 131A.	
Springs, front, $1\frac{1}{2} \times 4 \times 36$; rear, $1\frac{3}{8} \times 4 \times 36$	\$21.50
Half Patent Axles, $1\frac{1}{8} \times 7$	
Length, center to center of Axles, 5 ft.	
Center to center of rear Springs, 31 in.	
If wanted with Spring Bars ready for Body add to price \$1.50.	
Gear No. 132A.	
Springs, front, $1\frac{1}{2} \times 5 \times 36$; rear, $1\frac{1}{2} \times 4 \times 36$	\$25.50
Half Patent Axles, $1\frac{1}{4} \times 7$	
Length, center to center of Axles, 5 ft. 4 in	
Center to center of rear Springs, 33 in.	
If wanted with Spring Bars ready for Body add to price \$1.75.	
Gear No. 133A.	
Springs, front, $1\frac{3}{4} \times 6 \times 36$; rear, $1\frac{3}{4} \times 5 \times 36$	\$34.00
Concord Axles, $1\frac{3}{8} \times 7\frac{1}{2}$	
Length, center to center of Axles, 5 ft. 8 in	
Center to center of rear Springs, 35 in.	
If wanted with Spring Bars ready for Body add to price \$2.00.	
Gear No. 134A.	
Springs, front, $2 \times 6 \times 36$; rear, $2 \times 5 \times 36$	\$40.00
Concord Axles, $1\frac{1}{2} \times 8$	
Length, center to center of Axles, 6 ft.	
Center to center of rear Springs, 37 in.	
If wanted with Spring Bars ready for Body add to price \$2.25.	
Nos. 131B, 132B, 133B and 134B.	
For wheels, 36 inches Front, and 48 inches Rear.	
Gear No. 131B.	Price.
Springs, front, $1\frac{1}{2} \times 5 \times 36$; rear, $1\frac{3}{8} \times 4 \times 36$	\$25.50
Concord Axles, $1\frac{1}{8} \times 7$	
Length, center to center of Axles, 5 ft.	
Center to center of rear Springs, 31 in.	
If wanted with Spring Bars ready for Body add to price \$1.50.	
Gear No. 132B.	
Springs, front, $1\frac{1}{2} \times 5 \times 36$; rear, $1\frac{1}{2} \times 4 \times 36$	\$30.00
Concord Axles, $1\frac{1}{4} \times 7$	
Length, center to center of Axles, 5 ft. 4 in	
Center to center of rear Springs, 33 in.	
If wanted with Spring Bars ready for Body add to price \$1.75.	
Gear No. 133B.	
Springs, front, $1\frac{3}{4} \times 6 \times 36$; rear, $1\frac{3}{4} \times 5 \times 36$	\$35.50
Concord Axles, $1\frac{3}{8} \times 7\frac{1}{2}$	
Length, center to center of Axles, 5 ft. 8 in	
Center to center of rear Springs, 35 in.	
If wanted with Spring Bars ready for Body add to price \$2.00.	
Gear No. 134B.	
Springs, front, $2 \times 6 \times 36$; rear, $1\frac{3}{4} \times 6 \times 36$	\$42.00
Concord Axles, $1\frac{1}{2} \times 8$ in.	
Length, center to center of Axles, 6 ft.	
Center to center of rear Springs, 37 in.	
If wanted with Spring Bars ready for Body add to price \$2.25.	

ALL PRICES SUBJECT TO DISCOUNT.

IRONED GEARS, Continued.**Three-Spring Concord Express Gears—★**

Nos. 301 to 306.

Nos. 301 to 306. With Oil Tempered Ribbed Springs, Wrought Steel Circle and Concord Steel Axles, with Hard Boxes and Spindles. For Wheels 36 and 48 inch.

Width of Track.

If no track is specified, it will be understood that Regular Narrow Track, 4 ft. 8 in. out to out, is wanted, allowing for tire same width as axle. Regular Wide Track is 5 ft. 2 in. out to out. Where 5 ft. track is called for, it will be understood to mean center to center.

In ordering Gears, always specify width of Track and width of Tires.

Prices Include Spring Bars Ready for Body.

Gear No. 301.		Price.
Front Spring, $1\frac{1}{2} \times 5 \times 36$; rear, $1\frac{3}{8} \times 4 \times 36$	}	\$30.00
No. 6 Concord Solid Collar Steel Axle, $1\frac{1}{8} \times 7$		
Length of Reach, center to center of Axles, 5 ft.		
Center to center of Rear Springs, 2 ft. 11 in		
For width of Body, 3 ft. 4 in.; length, 7 ft.		
Track, out to out, 4 ft. 8 in.; for width of Tire, $1\frac{1}{4}$ in. }		
Double Bend Express Shafts ironed complete.		\$5.00
Gear No. 302.		
Front Spring, $1\frac{1}{2} \times 6 \times 36$; rear, $1\frac{1}{2} \times 5 \times 36$	}	\$34.50
No. 6 Concord Solid Collar Steel Axle $1\frac{1}{4} \times 7$ Spindle.		
Length of Reach, center to center of Axles, 5 ft. 2 in		
Center to center of Rear Springs, $36\frac{3}{4}$ in.		
For width of Body, 3 ft. 6 in.; length, 7 ft. 4 in		
Track, out to out, 4 ft. 8 in.; for width of Tire, $1\frac{3}{8}$ in. }		
Double Bend Express Shafts, ironed complete		\$5.50
Gear No. 303.		
Front Spring, $1\frac{3}{4} \times 6 \times 36$; rear, $1\frac{3}{4} \times 5 \times 36$	}	\$41.50
No. 6 Concord Solid Collar Steel Axle, $1\frac{3}{8} \times 7\frac{1}{2}$ Spindle.		
Length of Reach, center to center of Axles, 5 ft. 4 in		
Center to center of Rear Springs, 3 ft. $2\frac{3}{4}$ in		
For width of Body, 3 ft. 8 in.; length, 7 ft. 8 in.		
Track, out to out, 4 ft. 8 in.; for width of Tire, $1\frac{1}{2}$ in. }		
Double Bend Express Shafts, ironed complete		\$6.00

Prices continued on next page.

ALL PRICES SUBJECT TO DISCOUNT.

IRONED GEARS, Continued.**Three-Spring Concord Express Gears, Continued—★**

	Gear No. 304.	Price.
Front Spring, 2x7x36; rear, 1½x6x36		\$49.50
No. 6 Concord Solid Collar Steel Axle, 1½x8 Spindle		
Length of Reach, center to center of Axles, 5 ft. 8 in.		
Center to center of Rear Springs, 3 ft. 4 in.		
For width of Body, 3 ft. 10 in.; length, 8 ft.		
Track, out to out, 4 ft. 8 in.; for width of Tire, 1½ in.		\$6.50
Double Bend Express Shafts, ironed complete		

	Gear No. 305.	
Front Spring, 2¼x8x36; rear, 2x7x36		\$61.50
No. 6 Concord Solid Collar Steel Axle, 1½x8½ Spindle		
Length of Reach, center to center of Axles, 6 ft.		
Center to center of Rear Springs, 3 ft. 4 in.		
For width of Body, 4 ft.; length, 8 ft. 6 in.		
Track, out to out, 4 ft. 8 in.; for width of Tire, 1½ in.		\$7.00
Double Bend Express Shafts, ironed complete		

	Gear No. 306.	
Front Spring, 2½x9x36; rear, 2¼x7x36		\$74.00
No. 6 Concord Solid Collar Steel Axle, 1¾x9 Spindle		
Length of Reach, center to center of Axles, 6 ft. 6 in.		
Center to center of Rear Springs, 3 ft. 3½ in.		
For width of Body, 4 ft.; length, 9 ft.		
Track, out to out, 4 ft. 8 in.; for width of Tire, 1½ in.		\$8.00
Double Bend Express Shafts, ironed complete		
For Wrought Drop Steps Attached to Shafts, add to list price	\$2.50.	

Special Orders.

For other sizes and specifications of reach gears do not fail to give length of reach center to center of axles, and width center to center of rear springs; also give width of track, out to out, and if spring bars are wanted, give width of body and height of front and rear wheels, with width of tire.

Improved Duplex Singer Gears—

No.	Axles.	Springs.	Capacity.	Price.
1.	1 x 6½ in.	1¼x3 and 4x42 in.	800 lbs.	\$19.00
2.	1½x7 "	1¼x4 " 5x42 "	1000 "	 21.00
3.	1¼x7 "	1½x4 " 5x42 "	1200 to 1500 "	 26.00
4.	1½x7½ "	1½x5 " 6x42 "	1700 " 1800 "	 32.00
5.	1½x8 "	1¾x5 " 6x40 "	2200 " 2500 "	 42.00

When ordering these gears, please give track, and length and width of body, to avoid mistakes.

We are prepared to quote prices on all styles of **Fitch Gear Co.'s** gears.

ALL PRICES SUBJECT TO DISCOUNT.

Bodies.

MANUFACTURING DEPARTMENT.

We own and operate at Elkhart, Indiana, the largest and best equipped plant in the United States for the production of

HIGH GRADE
PIANO BOX BUGGY,
ROAD WAGON,
SPRING WAGON,
SURREY,
AND LIGHT DELIVERY WAGON
BODIES.

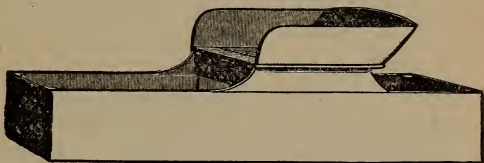
We supply many of the best known Wholesale Manufacturers of first-class work, both East and West, to any of whom we refer.

Whenever you happen to be in Elkhart or vicinity, do not fail to visit our factory, where you will be cordially received. An inspection of our facilities and methods of manufacture will convince you that the

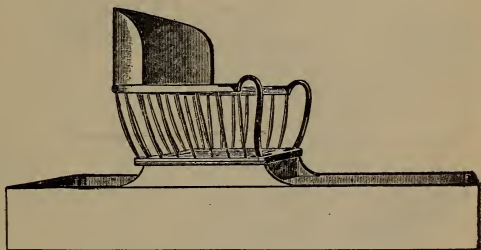
"KIMBARK" BODIES
ARE THE BEST.

HIGH GRADE BODIES.

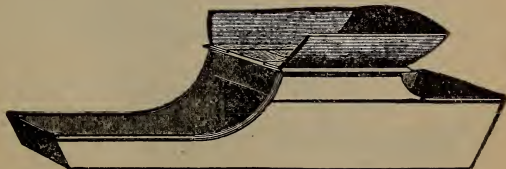
See prices and descriptions on page 374.



No. 265. Piano Body.



No. 530. Driving Wagon Piano Body.

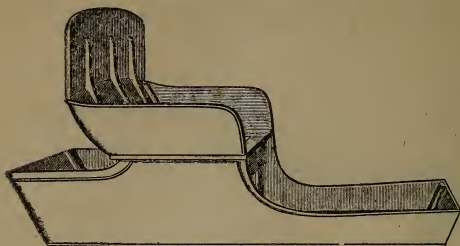


No. 466. Corning Body.

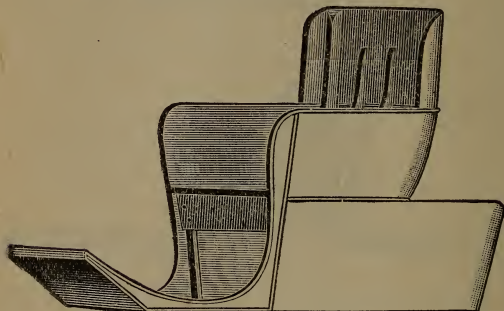
ALL PRICES SUBJECT TO DISCOUNT.

High Grade Bodies—Continued.

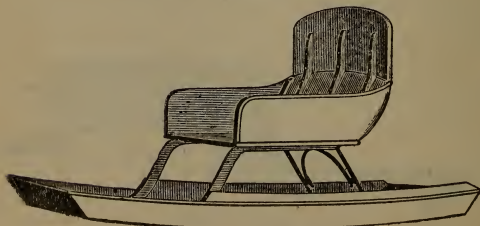
See prices and descriptions on page 374.



No. 467. Corning Body.



No. 50. Stanhope Body.

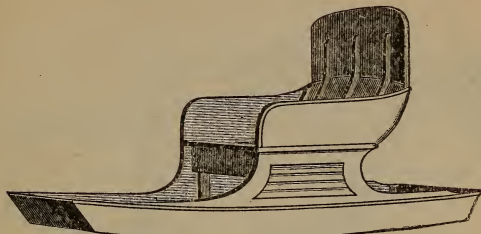


No. 510. Concord Body.

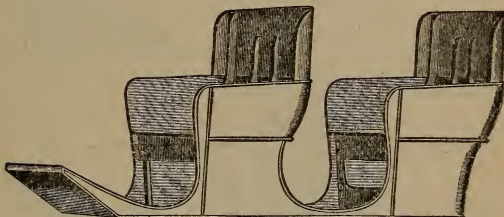
ALL PRICES SUBJECT TO DISCOUNT.

High Grade Bodies—Continued.

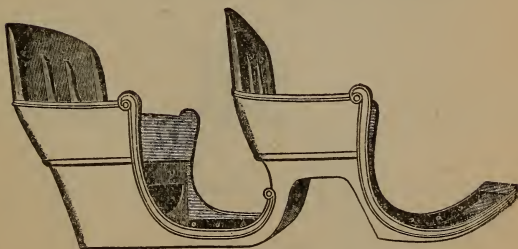
See prices and descriptions on page 374.



No. 511. Concord Body.



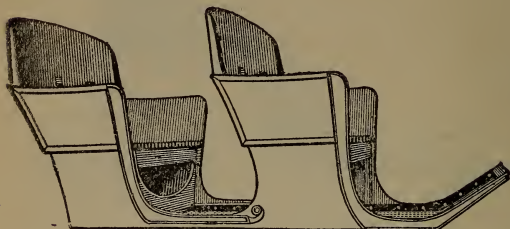
No. 504. Straight Sill Surrey Body.



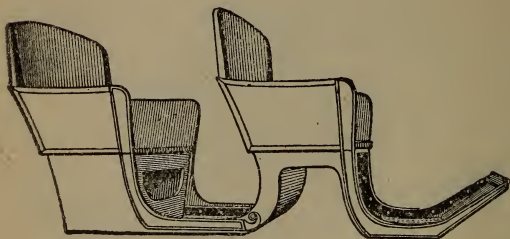
No. 508. Cut-under Surrey Body.
ALL PRICES SUBJECT TO DISCOUNT.

High Grade Bodies—Continued.

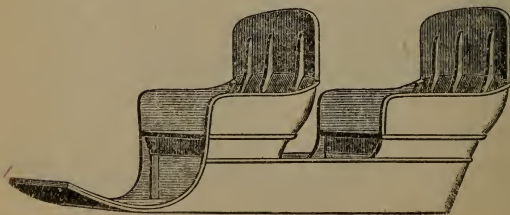
See prices and descriptions on page 374.



No. 650. Straight Sill Stanhope Surrey Body.



No. 625. Cut-under Stanhope Surrey Body.



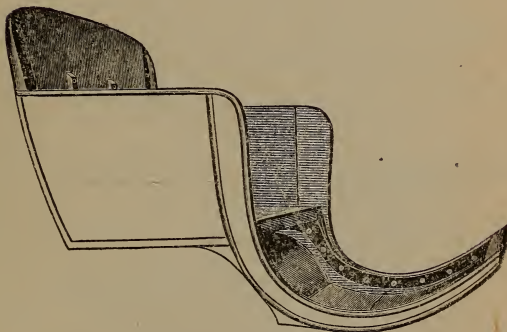
No. 509. Farmers' Surrey Body.
ALL PRICES SUBJECT TO DISCOUNT.

High Grade Bodies—Continued.

See prices and descriptions on page 374.



No. 256. Spring Wagon Body.



No. 100. Phaeton Body.

Surrey, Stanhope and Phaeton Bodies are made regularly only in sizes specified in list on page 374. Special sizes will take special prices.

For Stick Seats for Stanhope and Surrey Bodies, add 50 cents for each seat to list prices on page 374.

Cushion frames furnished when ordered, at additional charge.

ALL PRICES SUBJECT TO DISCOUNT.

HIGH GRADE BODIES.*

See Illustrations, pages 369 to 373.

- No. 265. Piano Body. Straight seat risers, convex panels and regular convex panel seat. Flat corner irons.....\$ 4.00
20, 22, 24 and 26 in. wide; 50, 52 and 54 in. long.
- No. 267. Piano Body. Concave seat risers, convex panels and regular convex panel seat. Oval corner irons in front, flat in rear..... 4.50
18, 20, 22 and 24 in. wide; 50, 52 and 54 in. long.
- No. 530. Driving Wagon Piano Body. Concave seat risers, convex panels, oval irons and finish front and rear. Bent spindle seat with malleable iron handles. No other irons..... 7.50
20, 22 and 24 in. wide; 56 in. long.
- No. 466. Corning Body. Plain without moulding... 4.00
Regular convex panel seat. 25 in. wide; 52 in. long.
Will interchange with 54 in. Piano Body.
- No. 467. Corning Body. Single moulding..... 4.25
Regular convex panel seat. 25 in. wide; 52 in. long.
Will interchange with 54 in. Piano Body.
- No. 475. Corning Body. Solid panel Phaeton seat. 6.25
25 in. wide; 52 in. long.
Will interchange with 54 in. Piano Body.
- No. 50. Stanhope Body. Panel seat..... 10.00
26 in. wide; 52 or 54 in. long.
- No. 510. Concord Body. Open risers without rear supports. Solid panel Phaeton seat without skirt... 6.50
26 in. wide; 54 in. long.
- No. 511. Concord Body. Solid risers moulded, solid panel Phaeton seat without skirt..... 7.00
26 in. wide; 54 in. long.
- No. 504. Straight Sill Surrey Body. Panel seats. 13.00
26 in. wide; 72 in. long.
- No. 508. Cut-under Surrey Body. Panel seats. 20.00
26 in. wide; 72 in. long.
- No. 650. Straight Sill Stanhope Surrey Body. Panel seats..... 13.50
26 in. wide; 72 in. long.
- No. 625. Cut-under Stanhope Surrey Body. Panel seats..... 20.50
26 in. wide; 72 in. long.
- No. 509. Farmer's Surrey Body. Solid panel Phaeton seats, rear seat movable..... 10.00
26 in. wide; 72 in. long.
- No. 256. Spring Wagon Body. Drop end gate. 8.25
Regular convex panel seats. 2 ft. 8 in., 2 ft. 10 in. and 3 ft. wide; 6½ ft., 7 ft., 7½ ft. and 8 ft. long.
- No. 100. Phaeton Body. 31 in. wide at dash..... 10.00

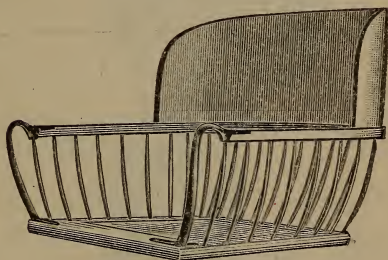
ALL PRICES SUBJECT TO DISCOUNT.

SEATS.★



Regular.

Regular Convex Panel Seats, without irons, 24 to 38 in long.....	\$1.10 each.
Regular Convex Panel Seats, without irons, with 14 in. panel back attached by wooden brackets	1.85 “
Regular Convex Panel Seats, without panel back, ironed with handles and top-irons, 24 to 38 in. long	1.65 “
Regular Convex Panel Seats, ironed with handles and top-irons, with 14 in. panel back attached by wooden brackets.....	2.40 “
All Regular Seats are 17 in. deep over all.	



Bent Spindle Seat.

Bent Spindle Seats, with malleable iron handles.	
24, 25, 26, 27, 28, 29, 30 and 31 in. long, 17 in. deep over all.....	3.75 each.
32, 33, 34 and 36 in. long, 17½ in. wide.....	4.50 “
Special Seats, over 36 in. long.....	6.25 “

ALL PRICES SUBJECT TO DISCOUNT.

Canopy Top Frames—★

To fit our Bodies, not ironed.

With mouldings \$2.50 each.

Without mouldings . . . 1.75 "

Canopy Top Irons, welded, ready to put on. See page 248.



Hickory Seat Spindles—★

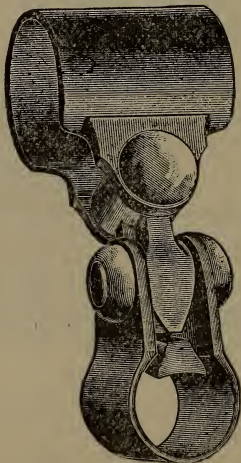


All 12x5-16 in. plain swell.

No. 1.	Straight.	Light, round.	7-16 in. center.
" 3.	"	Heavy, "	9-16 in. center.
No. 1.	Single Bend.	Light, round.	7-16 in. center.
" 2.	"	Light, oval.	5/8 in. center.
" 3.	"	Heavy, round.	9-16 in. center.
" 5.	O. G.	Light, oval.	5/8 in. center.
" 10.	"	Light, round.	7-16 in. center.
Straight Seat Spindles			\$1.75 per 100.
Bent " " " " " " " " " " " "			2.00 "

Bent Panel Backs—★

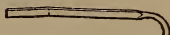
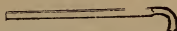
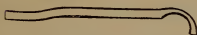
Yellow Cottonwood, 16x40 in.	54c. each.
" " " " " " " " " " " "	16x44 in. 60c. "



"S. D. K." Neckyoke Centers—

Strongest in the world. For prices see page 239.

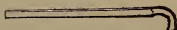
ALL PRICES SUBJECT TO DISCOUNT.

Plow Handles—

1 1/4 x 2 in. x 5 feet long, straight.....	\$1.62 per doz.
1 1/4 x 2 1/4 in. x 5 " " " "	1.80 "
1 3/8 x 2 1/8 in. x 5 " " " "	2.20 "
1 3/8 x 2 1/8 in. x 5 " " " "	2.42 "
1 3/4 x 2 3/4 in. x 5 " " " "	3.10 "
1 3/4 x 3 in. x 5 " " " "	3.40 "
2 x 3 in. x 5 " " " "	4.28 "
2 x 3 in. x 5 ft. 6 in. long, straight.....	4.68 "

EXTRAS.

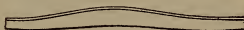
Single Side Bend, 1 1/4 x 2 1/4 in. and under.....	\$0.30 per doz.
M. B. Bend, 1 1/4 x 2 1/4 in. and under.....	.60 "
Single Side Bend, over 2 1/4 to 2 3/8 in.....	.40 "
M. B. Bend, over 2 1/4 to 2 3/8 in.....	.80 "
Single Side Bend, over 2 3/8 to 3 in.....	.50 "
M. B. Bend, over 2 3/8 to 3 in.....	1.00 "
K. Bend, over 2 3/8 to 3 in.....	1.20 "

Cultivator Handles—

1 1/4 x 2 in. x 4 ft. long.....	\$1.28 per doz.
1 1/4 x 2 in. x 4 ft. 6 in. long.....	1.46 "
1 1/4 x 2 1/4 in. x 4 ft. "	1.46 "
1 1/4 x 2 1/4 in. x 4 ft. 6 in. "	1.62 "
Side Bend, Extra	.30 "

Plow Rounds—

Long, 22 and 24 in.....	2 1/2 c. each.
Short, 16 in.....	2 c. "

Plow Beams—

Stirring, two-horse, 3 x 4 1/2 x 5 ft. 8 in.....	\$0.80 each.
" three-horse, 3 x 4 1/2 x 6 ft.....	.90 "
Breaking, 3 x 5 x 6 1/2 ft.....	1.00 "
" 3 1/4 x 5 x 7 ft.....	1.40 "

Hard Maple Rollers—

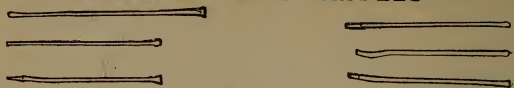
For moving houses and heavy machinery.

	Diameter 3 3/4	4 3/4	5 3/4	6 3/4	7 3/4 inches.
3 feet long....	\$0.75	\$1.00	\$1.40	\$1.90	\$2.40 each.
4 " "	.90	1.25	1.75	2.40	3.00 "
5 " "	1.15	1.65	2.25	2.90	3.75 "
6 " "	1.40	1.75	2.50	3.50	4.40 "
7 " " ....	....	....	3.00	4.00	5.00 "

Ferrules, For Hay and Manure Fork Handles—★

Fork, Rake and Hoe	\$1.00 per doz.
Strap Fork.....	2.50 "
Malleable D Tops.....	2.00 "

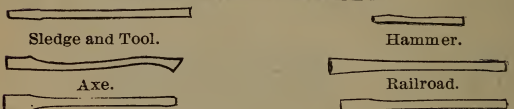
ALL PRICES SUBJECT TO DISCOUNT.

FARMING TOOL HANDLES *


	XX Grade.				
	4	4½	5	5½	6 feet.
Straight Hay Fork.....	\$2.15	\$2.25	\$2.55	\$2.90	\$1.30 doz.
Bent	2.55	2.65	2.95	3.30	3.70 "
Bent Manure Fork.....	2.75	3.00	3.65		"
Garden Rake	5 ft., \$2.25	5½ ft., \$2.55	6 ft., \$2.90		per doz.



Farmers' Hoe.....	4½ ft.,	2.00	"
Socket	4½ ft.,	2.00	"
Long Bent Spading Fork.....	4½ ft.,	3.00	"
Long Bent Spade	4½ ft.,	3.50	"
Long Bent Shovel.....	4½ ft.,	4.00	"
D Manure Fork		3.75	"
D Spading Fork.....		3.75	"
D Shovel		4.25	"
D Scoop		4.25	"
D Ditching Spade..		5.00	"

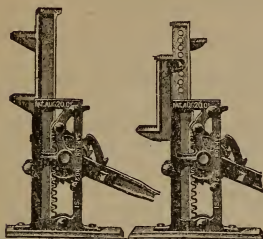
HICKORY HANDLES*


Sledge and Tool.		Hammer.	
Axe.		Railroad.	
Coal.		Drifting.	Per Doz.
Sledge, Maul and Tool, extra, 34 and 36 in.....			\$2.50
" " " " 30 and 32 in.....			2.10
" " " " 26 and 28 in.....			1.90
" " " " 24 in.....			1.45
Hammer, extra, 24 in.....			1.25
" " 22 in.....			1.15
" " 20 in.....			1.05
" " 18 in.....			.90
" " 16 in.....			.80
" " 12 to 15 in.....			.70
Turned Axe, Extra, 34 to 36 in., 2 doz. in case.....			3.75
" " Excelsior, " 2 " ".....			3.00
" " No. 1 " 2 " ".....			2.50
" " No. 2 " 2 " ".....			2.00
" " No. 3 " 2 " ".....			1.65
Double Bitted Axe, No. 2, \$1.80; No. 3, \$1.50. Others same as above.			
Shaved Axe, XXX, 30 to 36 in., 2 doz. in case.....			4.40
" " XX " 2 " ".....			3.60
Broad " Extra.....			3.75
Adze, Extra, 32, 34 and 36 in., 2 doz. in case.....			4.00
Railroad Pick and Mattock, Extra, 36 in.....			4.50
" " " Excelsior.....			3.75
" " " No. 1.....			3.00
" " " No. 2.....			2.25
Coal Pick, Extra.....			3.25
" " Excelsior.....			2.15
" " No. 1.....			1.75
Drifting and Pole Pick, Extra, 32 to 36 in.....			3.75
" " " Excelsior.....			3.00
" " " No. 1.....			2.50

ALL PRICES SUBJECT TO DISCOUNT.

WAGON JACKS.

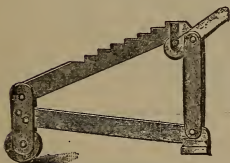
See prices on next page.



Improved Samson.



Oliver's 1897



Oliver's Practical.



Covert's Auto.



Handy.



Covert's.



BB. Nos. 1, 2, 5.



Baby.
Nos. 0A. 00A.

WAGON JACKS.

See illustrations on page 379.

Oliver's Improved Samson Jacks—★

Malleable iron, with 1898 improvements.

No.1.	Weight 17 lbs., will raise two tons.....	\$4.00 each.
" 2.	" 27 lbs., " five tons.....	5.00 "
" 2.	" 32 lbs., with drop hook, will raise five tons	5.75 "

Oliver's New Style 1897 Jacks—★ Malleable iron.

No.1.	Weight 7 lbs., will raise one ton.....	\$1.25 each.
" 1.	" 7 lbs., " one ton, bracket cov- ered with leather for fine carriages.....	1.75 "
" 2.	Weight 12 lbs., will raise two tons	2.00 "
" 3.	" 18 lbs., " three tons.....	3.00 "

Oliver's Practical Jacks—★

No. 0.	1 inch thick, will raise one ton.....	\$1.25 each.
" 00.	1¼ " " two tons	1.50 "
" 000.	1¾ " " three tons	2.00 "

Covert's Automobile Jacks—★

No.501.	7 lbs., lifts 3000 lbs., adjusts 11 to 17 in.	\$36.00
" 503	12 lbs., " 5000 lbs., " 14¼ to 23¼ in.	60.00

Handy Screw Jacks—

Every shop should have two. Lifts a wagon body clear for taking out springs, axles, etc., for repairing. Whole height with legs, 42 inches. Screw raises 12 in. Weight 17 lbs. Price.....\$4.80 each.

Covert's Carriage and Wagon Jacks, Steel—★

No.475.	Weight 6 lbs. For carriages. Step covered with leather. 1,000 lbs.....	\$12.50 per doz.
No. 476.	Weight 10 lbs. For wagons, lifts 2500 lbs.....	16.00 "

"B. B." Wagon Jacks—★

No. 1.	Autos. Lifts 2000 lbs. Raises 12 to 19 in.	\$2.75 each.
" 2.	Lifts 3,000 lbs. Raises 16 to 27 in....	3.00 "
" 5.	Autos. Wgt. 6¼ lbs. Raises 10 to 15 in. Lifts 2,000 lbs.....	2.75 "
" 0A.	"Baby," adjusts 13½ to 27 in.....	2.25 "
"00A.	"Baby" Autos, adjusts 9½ to 19 in....	2.00 "



Lane's Wagon Jacks—★

With double lift bars, all steel.

		Japanned.	Galvanized.
No.0.	Will raise 500 lbs.	\$11.50	\$16.50 per doz.
" 1.	" 900 lbs.	15.00	22.50 "
" 2.	" 1,800 lbs.	22.50	34.00 "
" 3.	" 4,000 lbs.	50.00	70.00 "

Lakin's Wagon Jacks—

No.1	Buggy	\$18.00 per doz.
" 2	Express.....	24.00 "
" 3	Truck	33.00 "
" 4	Heavy Truck.	72.00 "



ALL PRICES SUBJECT TO DISCOUNT.

CUTTER WOODS.

IN-THE-WHITE. NOT IRONED.

All Sleigh bodies taken off gears and dashes detached from bodies except those on Old Comforts. Knees and beams and runners shipped in bundles.



No. 2. Swell Body.

No. 2. Swell Body.

Extra large and comfortable.

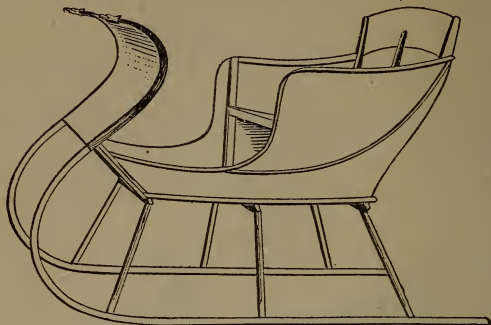
Runners, $\frac{7}{8}$ in.

Price.....\$8.00 each.

ALL PRICES SUBJECT TO DISCOUNT.

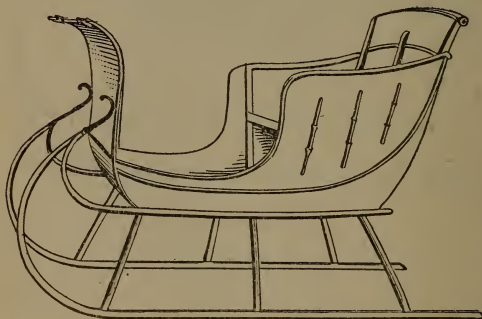
Cutter Woods, Continued.

In-the-white. Not ironed.



No. 8. Portland Cutter.

No. 8. Portland. Plain dash without wings...\$9.00 each.



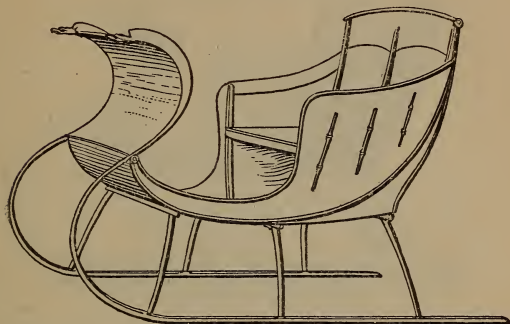
No. 37. Old Comfort Sleigh.

No. 37. Old Comfort Sleigh. Gear, 15 in. high.
 Runners, $\frac{3}{4}$ in. Bent knees. New socket iron
 to receive fenders.
 Seat wide and deep with high back.
 Price.....\$10.50 each

ALL PRICES SUBJECT TO DISCOUNT.

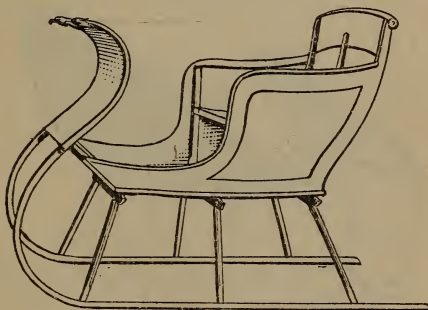
Cutter Woods, Continued.

In-the-white. Not Ironed.



No. 31. Portland Cutter.

No. 31. Portland Cutter. Body made solid to sills. Gear interchangeable with bracket front Portlands.
 Price.....\$10.50 each.



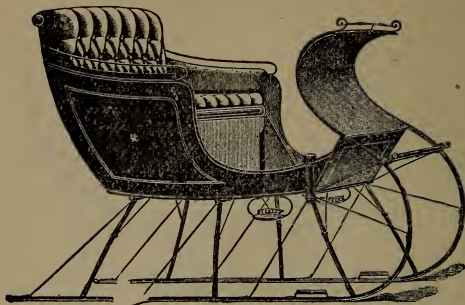
No- 51. Portland Cutter.

No. 51. Portland Cutter. Wing dash, as shown on No. 31
 Regular gear 17 in high.
 Price.....\$10.00 each.

ALL PRICES SUBJECT TO DISCOUNT.

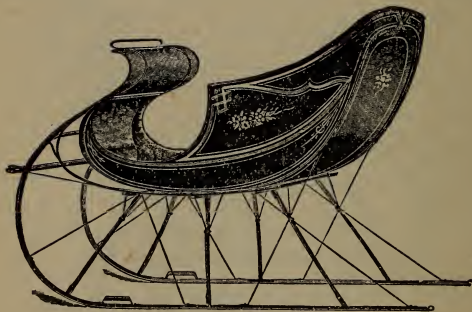
FINISHED SLEIGHS.

IRONED, PAINTED AND TRIMMED.



No. 76. Portland.

No. 76. Portland. Seat, 35 in. Cushion on top, 36 in. Back, 22 in. high from seat bottom. Side panels, 9½ in. high at front part. Gear, 22 in. high on front beam. Shoes, ¾ in. oval edge steel. Truss braces on front knees. Springs in cushion and back. Trimmed in cloth or whipcord\$27.00 each.



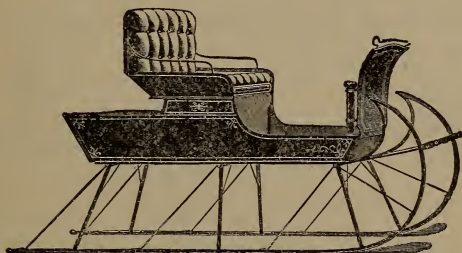
No. 15. Swell Body.

No. 15. Swell Body. Seat, 36 in. on bottom. Cushion on top, 37 in. Back, 19 in. high from seat bottom. Gear, 18½ in. high. Shoes, ⅞x⅜ in. steel. Trimmed in moquette.....\$24.00 each.

ALL PRICES SUBJECT TO DISCCUNT.

Finished Sleighs—Continued.

IRONED, PAINTED AND TRIMMED.



No. 35. Business Sleigh.

No. 35. Business Sleigh. Body on bottom, 27x50 in. Gear, 16 in. high. Shoes, $\frac{7}{8}$ x $\frac{3}{8}$ in. steel. Seat, hung on hinges so as to throw forward, giving more room behind. Trimmed in Moquette or cloth.....\$21.00 each.

Our line of FINISHED SLEIGHS comprises also various other styles of two and four passenger Sleighs.

Complete illustrated sheet will be mailed upon request.

Discounts from above prices quoted upon application.

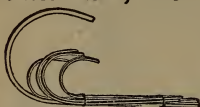
ALL PRICES SUBJECT TO DISCOUNT.

Fancy Grocery Bob Stuff, including High Bend Runners.

4 Bent Raves and 4 Bent Fenders—

		Runners alone.
1 1/4 x 1 1/4 in. runners	\$2.26 per set.	\$0.92 per set.
1 3/8 x 1 1/2 in. "	 2.54 "	1.14 "
1 1/2 x 1 3/4 in. "	 2.68 "	1.32 "
1 5/8 x 2 in. "	 3.10 "	1.56 "
1 5/8 x 2 1/4 in. "	 3.50 "	1.76 "
2 1/2 x 3/4 in. bent raves for above	.....	.70 "
2 1/2 x 7/8 in. " " " " " "	.....	.90 "
1 1/2 in. square bent fenders for above (4)	.....	.70 "
1 1/4 in. " " " " (4)	.....	.90 "

Cutter Stuff, comprising Runners, Raves and Fenders—



One-Seat, Square Body.



One-Seat, Swell Body.



One-Seat, Portland.

One-seat, square body	\$1.32 per set.
Two-seat, square body	 1.44 "
One-seat, swell body	 2.56 "
Two-seat, swell body	 3.40 "
One-seat, Portland	 1.42 "
Two-seat, Portland	 1.58 "

Cutter Runners—

	1x1 1/4,	1 1/8x1 3/8,	1 1/8x1 1/2 in.
Plain (square or swell body)	\$0.60	\$0.64	\$0.64 per pair.
Goose Neck (Portland)	70	.78	.78 "

Cutter Raves—

	One-Seat.	Two-Seat.
Square Body	\$0.36	\$0.40 per pair.
Swell Body, wide	 1.10	1.70 "
Portland	36	.40 "

Cutter Fenders—

	Square Body.	Swell Body.	Portland.
One-seat	\$0.36	\$0.46	\$0.36 per pair.
Two-seat	40	.56	.40 "

Cutter Knees and Beams, Straight—

Forest Hickory, 9 pieces to a set.		
1 inch.	1 1/4 inch.	1 1/2 inch.
50c.	50c.	60c. per set.

ALL PRICES SUBJECT TO DISCOUNT.

Cutter Shafts—*



Price per dozen pairs.

	XX	XXX	Black Hickory.
1 $\frac{3}{8}$ x 2 in.			
Rough.....	\$6.00	\$7.50	\$10.50
Half finished.	7.25	8.75	11.75
Finished, with one cross bar.	8.00	9.50	13.00
“ “ two “ bars.	11.50	13.00	16.50

Finished Bob Tongues—

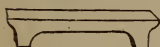


3 $\frac{1}{2}$ in. at butt, 12 ft. long.....\$1.40 each.

Rough Bob Tongues—

4x4, 12 ft. long.....\$1.20 each.

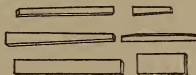
Sawed Bob Benches—



3x3x9	3x3 $\frac{1}{2}$ x 9	4x9 in.
\$0.90	.90	1.00 each.

Regular benches are 3 ft. 2 in. outside measurement.
Wide track, made to order at special prices.

Bob Sleigh Gearing—



4 Raves, 1 $\frac{1}{2}$ x 7 $\frac{3}{4}$ in., 4 ft. 6 in. long:	\$1.60 per set.
5 Beams, 3x3 $\frac{1}{4}$ in., 4 ft. long.	.90 “
10 Knees, 3x3 $\frac{1}{4}$ in., 1 ft. 6 in. long.	.60 “
2 Rollers, 3x3 $\frac{1}{4}$ in., 3 ft. long.	.28 “
1 Reach, 2x4 in., 4 ft. long.....	.12 each.
1 Sand Board, 2x10 in., 2 ft. long.	.26 “
2 Saddle Blocks, 2 $\frac{1}{2}$ x 3 $\frac{1}{2}$ in., 2 ft. long ...	.12 per set.

The above 25 pieces constitute a Regular Set.

Price. 3.88 “

ALL PRICES SUBJECT TO DISCOUNT.

Solid Bend Bob Runners—

REGULAR BEND.

Tread.	Depth.	Length.	
1 $\frac{1}{8}$	x 1 $\frac{1}{4}$	in. x 5 feet	\$0.80 per set.
1 $\frac{1}{4}$	x 1 $\frac{3}{8}$	" " "	.90 "
1 $\frac{3}{8}$	x 1 $\frac{1}{2}$	" " "	1.00 "
1 $\frac{1}{2}$	x 1 $\frac{3}{4}$	" " "	1.10 "
1 $\frac{5}{8}$	x 2	" " "	1.20 "
1 $\frac{5}{8}$	x 2 $\frac{1}{4}$	" " "	1.30 "
1 $\frac{3}{4}$	x 2 $\frac{1}{2}$	" " "	1.40 "
2	x 2 $\frac{1}{4}$	" " "	1.50 "
2	x 2 $\frac{1}{2}$	" " "	1.60 "
1 $\frac{3}{4}$	x 2 $\frac{3}{4}$	" " "	1.70 "
2	x 3	in. 5 ft. 6 in.	1.85 "
2	x 3 $\frac{1}{4}$	" " "	2.10 "
2 $\frac{1}{4}$	x 3	" " "	2.10 "
2	x 3 $\frac{1}{2}$	" " "	2.15 "
2 $\frac{1}{2}$	x 3	" " "	2.20 "
2	x 3 $\frac{3}{4}$	" " "	2.25 "
2 $\frac{1}{2}$	x 3 $\frac{1}{4}$	" " "	2.50 "
2 $\frac{1}{2}$	x 3 $\frac{1}{2}$	" " "	2.60 "
3	x 3 $\frac{1}{4}$	" " "	3.00 "
3	x 3 $\frac{1}{2}$	" " "	3.00 "
2	x 4	" " "	2.45 "

MEDIUM LOW BEND.

Tread.	Depth.	Length.	
2	x 4	in. x 5 ft. 10 in.	\$2.60 per set.
2	x 4 $\frac{1}{2}$	" " "	2.80 "
2 $\frac{1}{4}$	x 4	" " "	2.80 "
2 $\frac{1}{2}$	x 4	" " "	2.80 "
2 $\frac{1}{4}$	x 4 $\frac{1}{2}$	" " "	3.10 "
2 $\frac{1}{2}$	x 4 $\frac{1}{2}$	" " "	3.50 "
3	x 4	" " "	3.50 "

LOGGING BEND.

Tread.	Depth.	Length.	
2	x 5	in. x 5 ft. 10 in.	\$3.60 per set.
2	x 5 $\frac{1}{2}$	" " "	3.90 "
3	x 4 $\frac{1}{2}$	" " "	4.20 "
2	x 6	" " "	4.20 "
2 $\frac{1}{2}$	x 5	" " "	4.50 "
2 $\frac{1}{2}$	x 5 $\frac{1}{2}$	" " "	4.70 "
2 $\frac{1}{2}$	x 6	" " "	5.20 "
3	x 5	" " "	5.40 "
3	x 5 $\frac{1}{2}$	" " "	5.80 "
3	x 6	" " "	6.20 "

ALL PRICES SUBJECT TO DISCOUNT.

Solid Bend Runners—Continued.

LOGGING BEND—Continued.

Tread. Depth. Length.

2	x 4	in. x 6 feet	.....	\$2.70 per set.
2¼	x 4	" "	.....	3.05 "
2½	x 4	" "	.....	3.40 "
2¼	x 4½	" "	.....	3.60 "
2¼	x 5	" "	.....	4.10 "
2½	x 4½	" "	.....	4.20 "
3	x 4	" "	.....	4.20 "
2½	x 5	" "	.....	4.70 "
2¼	x 5½	" "	.....	4.40 "
2½	x 5	" "	.....	4.70 "
2¾	x 5	" "	.....	5.10 "
2¼	x 6	" "	.....	5.10 "
2½	x 5½	" "	.....	5.20 "
3	x 4½	" "	.....	5.20 "
2¾	x 5½	" "	.....	5.50 "
3	x 5	" "	.....	5.50 "
2¼	x 6	" "	.....	5.70 "
3	x 5½	" "	.....	5.90 "
3¼	x 5½	" "	.....	6.40 "
3	x 6	" "	.....	6.90 "
3¼	x 6	" "	.....	7.30 "

For runners 6 feet 6 inches long, add to list of 6-ft. runners half the difference between 6-ft. list and 7-ft. list.

Tread. Depth. Length.

2	x 4	in. x 7 feet	.....	\$3.20 per set.
2¼	x 4	" "	.....	3.40 "
2½	x 4	" "	.....	3.90 "
2	x 4½	" "	.....	4.20 "
2¼	x 4½	" "	.....	4.30 "
2	x 5	" "	.....	4.60 "
2¼	x 5	" "	.....	4.70 "
2½	x 4½	" "	.....	4.60 "
3	x 4	" "	.....	4.60 "
2½	x 5	" "	.....	5.00 "
2¼	x 5½	" "	.....	5.00 "
2¾	x 5	" "	.....	5.60 "
2	x 6	" "	.....	5.40 "
2¼	x 6	" "	.....	5.60 "
2½	x 5½	" "	.....	5.50 "
3	x 4½	" "	.....	5.50 "

ALL PRICES SUBJECT TO DISCOUNT.

Solid Bend Runners—Continued.

LOGGING BEND—Continued.

Tread.	Depth.	Length.	
3 $\frac{3}{4}$ x 5 $\frac{1}{2}$ in. x 7 feet			\$ 6.00 per set.
3 x 5	"	"	5.80 "
2 $\frac{1}{2}$ x 6	"	"	6.00 "
3 x 5 $\frac{1}{2}$	"	"	6.00 "
3 $\frac{1}{4}$ x 5 $\frac{1}{4}$	"	"	6.60 "
3 x 6	"	"	7.10 "
3 $\frac{1}{4}$ x 6	"	"	7.50 "
2 $\frac{1}{4}$ x 4 $\frac{1}{2}$ in. x 8 feet			5.00 "
2 $\frac{1}{2}$ x 4 $\frac{1}{2}$	"	"	5.20 "
2 $\frac{1}{2}$ x 5	"	"	5.80 "
2 $\frac{1}{2}$ x 5 $\frac{1}{2}$	"	"	6.00 "
3 x 4 $\frac{1}{2}$	"	"	5.80 "
2 $\frac{1}{4}$ x 6	"	"	6.20 "
2 $\frac{1}{2}$ x 5 $\frac{1}{2}$	"	"	6.40 "
3 x 5	"	"	6.60 "
2 $\frac{1}{2}$ x 6	"	"	7.10 "
3 x 5 $\frac{1}{2}$	"	"	7.40 "
3 x 6	"	"	8.00 "
3 x 6 $\frac{1}{4}$	"	"	8.40 "
3 x 6 $\frac{1}{2}$	"	"	8.80 "
3 $\frac{1}{2}$ x 7	"	"	10.30 "
3 $\frac{1}{4}$ x 7 $\frac{1}{2}$	"	"	11.20 "
4 x 6 $\frac{1}{2}$	"	"	11.80 "
4 x 7	"	"	13.40 "
3 $\frac{1}{4}$ x 8	"	"	11.80 "
3 $\frac{1}{2}$ x 8	"	"	13.50 "
4 x 8	"	"	15.00 "

Mud Bob Sled Runners—

Tread.	Depth.	Length.	
3 x 1 $\frac{1}{2}$ in. x 5 ft. 10 in.			\$1.60 per set.
4 x 1 $\frac{1}{2}$	"	"	2.00 "
5 x 1 $\frac{1}{2}$	"	"	2.30 "
6 x 1 $\frac{1}{2}$	"	"	2.60 "
3 x 2	"	"	1.80 "
3 $\frac{1}{2}$ x 2	"	"	2.00 "
4 x 2	"	"	2.20 "
4 $\frac{1}{2}$ x 2	"	"	2.40 "
5 x 2	"	"	2.60 "
5 $\frac{1}{2}$ x 2	"	"	2.90 "
6 x 2	"	"	3.20 "
3 $\frac{1}{2}$ x 2 $\frac{1}{2}$	"	"	2.40 "
4 x 2 $\frac{1}{2}$	"	"	2.60 "

ALL PRICES SUBJECT TO DISCOUNT.

Mud Bob Sled Runners—Continued.

4½	x	2½	in. x 5 ft. 10 in.	\$2.80 per set.
5	x	2½	" " " "	3.00 "
6	x	2½	" " " "	3.40 "
4	x	3	" " " "	3.76 "
5	x	3	" " " "	4.10 "
6	x	3	" " " "	5.00 "
3	x	1½	in. x 7 feet.	1.80 "
4	x	1½	" " " "	2.20 "
5	x	1½	" " " "	2.40 "
6	x	1½	" " " "	2.70 "
3	x	2	" " " "	2.10 "
3½	x	2	" " " "	2.30 "
4	x	2	" " " "	2.50 "
4½	x	2	" " " "	2.70 "
5	x	2	" " " "	2.90 "
5½	x	2	" " " "	3.00 "
6	x	2	" " " "	3.20 "
3½	x	2½	" " " "	2.70 "
4	x	2½	" " " "	2.90 "
4½	x	2½	" " " "	3.10 "
5	x	2½	" " " "	3.30 "
6	x	2½	" " " "	3.60 "
4	x	3	" " " "	4.00 "
5	x	3	" " " "	4.50 "
6	x	3	" " " "	5.20 "

Long Sleigh Runners—

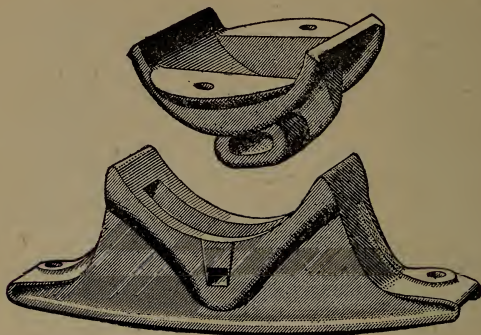
REGULAR BEND.

Tread.	Depth.	Length.	
1½	x	1½	in. x 11 feet. \$0.40 per set.
1½	x	1¾	" " " " .45 "
1½	x	2	" " " " 1.00 "
1½	x	2¼	" " " " 1.20 "
1⅝	x	2½	" " " " 1.40 "
1⅝	x	2¾	" " " " 1.50 "
2	x	3	" " " " 1.70 "
2	x	3½	" " " " 2.00 "
2⅛	x	4	" " " " 2.30 "
2½	x	4	" " " " 2.50 "
2⅛	x	4¼	" " " " 2.50 "
2½	x	4½	" " " " 3.00 "
2⅛	x	5	" " " " 3.20 "
2½	x	5	" " " " 3.50 "

One stick making two long runners in one set of Long Sleds.

ALL PRICES SUBJECT TO DISCOUNT.

Rempis Sleigh Knees—



STANDARD.

Height from top of runner
to bottom of beam.

1½ in.	10	in. long....	7	in.....	\$3.50 per set.
1¾ "	10	" " "....	7	".....	4.00 "
2 "	15½	" " "....	4½	".....	5.00 "
2½ "	17	" " "....	4½	".....	6.00 "
3 "	17	" " "....	4½	".....	7.00 "

LUMBERMEN's, for Logging Sleighs.

2½ in.....	4 in.....	6.00 "
3 ".....	4 ".....	7.00 "
3½ ".....	4 ".....	9.10 "
4 ".....	4 ".....	10.50 "

Brown's Sleigh Knees—

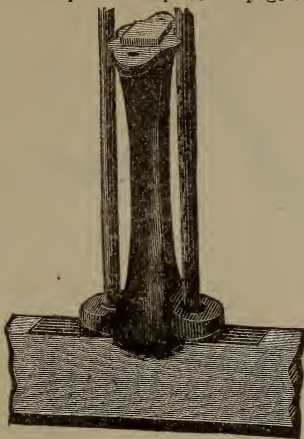
See illustrations on next page.

No.	For runners with	Delivery	\$1.20 per set.
1	1¼ in. shoes,	"	1.70 "
2	1½ " "	"	2.10 "
3	1¾ " "	Farm	3.50 "
4	2 " "	"	3.90 "
5	2¼ " "	Logging	4.00 "
6	2½ " "	"	4.20 "
7	3 " "	"	

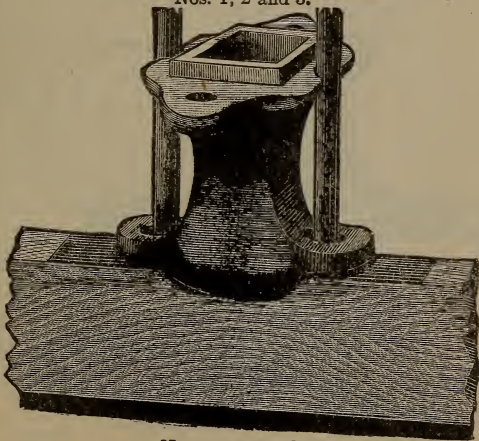
ALL PRICES SUBJECT TO DISCOUNT.

BROWN'S SLEIGH KNEES

See descriptions and prices on page 392.



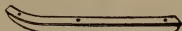
Nos. 1, 2 and 3.



Nos. 4, 5, 6 and 7.

ALL PRICES SUBJECT TO DISCOUNT.

Cast Bob Sleigh Shoes—



34, 36, 40, 42, 44 and 48 in. long.....\$3.20 per 100 lbs

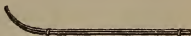
Flat Sleigh Shoe Steel—

1½x¾ to 4x½.....\$3.60 per 100 lbs.
¾x5-16 to 1¼x¾.....3.90 " "

Curved and Half Oval Sleigh Shoe Steel—

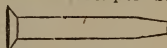
Ordinary sizes.....\$4.10 per 100 lbs.

Cutter and Grocery Bob Shoes—

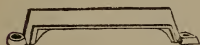


Ends tapered and bent.....5c. per lb.

Bob Sleigh King Bolts—



Steel, 1x10 in.....5½c. per lb.



Scraper Irons—

Malleable.....11½c. per lb

Sleigh Steps—

Per lb.

Malleable....11½c.

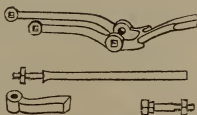


No. 1888. No. 1889. No. 1890.

Sleigh Couplings—



Albany.



Portland, finished.



Regular.

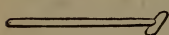
Portland pattern, unfinished ends..	\$14.00	per doz. pairs.
" " finished ends.....	21.00	" "
Albany pattern.....	6.00	" "
Regular " both ends round....	6.00	" "

Brace Yokes—

Round, ¾, 7-16 and 9-16, 96c. pr doz.



ALL PRICES SUBJECT TO DISCOUNT.

Sleigh Forgings—★

	9-16	$\frac{5}{8}$	$\frac{3}{4}$ in.
Feet...	\$1.60	\$1.75	\$2.05 per doz.



Heads..	1.70	1.90	2.10	"
---------	------	------	------	---

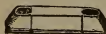


Knees..	1.90	2.10	2.30	"
---------	------	------	------	---

In sets of 6 pieces each, Feet, Heads and Knees. For 9-16 in. brace, \$1.85 per set, $\frac{5}{8}$ in. brace, \$2.05 per set, $\frac{3}{4}$ in. brace, \$2.30 per set.

Point Centre Sleigh Clips—★

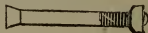
2-16 in. shank.			$\frac{1}{4}$ in. shank.		
No.	Flat.	Per doz.	No.	Flat.	Per doz.
.00 $\frac{1}{4}$	2 $\frac{1}{8}$ in.	\$0.80	00	2 in.	\$0.80
0	2 $\frac{3}{8}$ in.	.80	00 $\frac{1}{2}$	2 $\frac{1}{4}$ in.	.80
0 $\frac{1}{2}$	2 $\frac{5}{8}$ in.	.80	0	2 $\frac{3}{8}$ in.	.80
1	3 in.	.80	0 $\frac{1}{2}$	2 $\frac{5}{8}$ in.	.80
			1	3 in.	.80
			1 $\frac{1}{2}$	3 $\frac{1}{4}$ in.	.80
			2	3 $\frac{1}{2}$ in.	.80

**Sleigh Clip Yokes—**

Wrought smooth finish, 3-16
and $\frac{1}{4}$ in. 40c. per doz.
Malleable..... 15c. per lb.

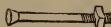
Sleigh Shoe Bolts—★

Price per 100.



	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	5 $\frac{1}{2}$	6 in.
5-16.....	\$1.60	\$1.70	\$1.80	\$1.90	\$2.00	\$2.10
3 $\frac{1}{2}$	2.24	2.40	2.56	2.72	2.88	3.04
7-16.....	2.92	3.10	3.28	3.46	3.64	3.82
$\frac{1}{2}$	3.44	3.66	3.88	4.10	4.32	4.54
	6 $\frac{1}{2}$	7	7 $\frac{1}{2}$	8	9	10 in.
5-16.....	\$2.20	\$2.30	\$2.40	\$2.50	\$2.70	\$2.90
3 $\frac{1}{2}$	3.20	3.36	3.52	3.68	4.00	4.32
7-16.....	4.00	4.18	4.36	4.64	4.90	5.26
$\frac{1}{2}$	4.76	4.98	5.20	5.42	5.86	6.30

ALL PRICES SUBJECT TO DISCOUNT.

Cutter Shoe Bolts—★

Same list prices as Norway Tire Bolts.

	1½	1¾	2	2¼	2½	2¾	3 in.
3-16.....	\$1.50	\$1.50	\$1.60	\$1.65	\$1.75	\$1.80	\$1.90
¼.....	2.00	2.15	2.25	2.40	2.50	2.65	2.75

Whip Sockets—★

No. 24.



No. 23.



No. 25.



Nos. 259¼ & 259½.

No. 24.	Japanned wood, 10 in. long, with screw eye fasteners and rubbers.....	\$1.90 per doz.
" 23.	Japanned wood, 8 in. long, with screw eye fasteners and rubbers.....	1.80 "
" 25.	Japanned wood, 10 in. long, with rubbers	4.70 "
" 25.	With silver bands.....	5.20 "
" 259¼.	Leather, 10 in. long.....	4.75 "
" 259½.	" 12 in. ".....	5.50 "
Fasteners on Nos. 259¼ and 259½ extra. .		

Sleigh Whip Socket Fasteners—★

28.



28½.



29¼.



29½.



29¾.

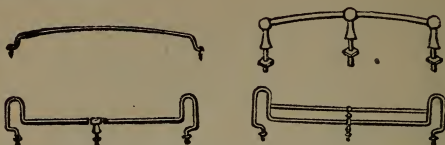


195.

No.	Japanned.	Nickled.
No. 28.....		\$2.00 per doz.
" 28½.....	.80	2.00 "
" 29¼.....	.80	2.00 "
" 29½.....	.20	2.00 "
" 29¾.....	.20	2.00 "
" 195.....	.40 per doz. pairs.	

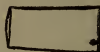
ALL PRICES SUBJECT TO DISCOUNT.

Dash Rails—



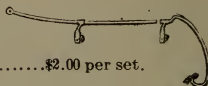
Large variety in stock. Send sketch of what is wanted, state distance between bolts.

Plated Shaft Tips—★



1 3/4 in. long.....	3/4 & 7/8	1	1 1/4 in.
Silver and Oroide.....	\$1.50	\$1.80	\$2.30 per doz. pair.
Gold.....	2.00	2.40	3.10 " "
Tinned X.C.....	.65	.75	 " "
Nickel, on steel, 3/8 in., 66c. per doz. pair.			

Adjustable Arm Rails with Handle—



No. 1056. Nickel-plated.....\$2.00 per set.

Brass Eagle Heads—★

No. 1. One-seat.....	\$2.00 per doz. pairs.
" 2. Two-seat.....	3.00 " "
" 3. Extra large.....	4.00 " "



Foot Warmers—

20 in. long, polished ends, velvet
carpet cover.....\$4.50 each.



DIRECTIONS FOR USING.

Place a piece of "Clark" carbon in a brisk fire until it has become red through and through. Then take it out and leave it for a few seconds until the little flame which appears has died away. Afterwards place it in the sheet metal box or drawer and then insert same in the heater. A full cake or brickette will heat from 12 to 15 hours. A third of a cake is sufficient for ordinary use and will last from 8 to 12 hours. When used the first time the heater will emit a slight smell for a little while due to the presence of the oil which is always on new metal. This is rapidly volatilized and afterwards there is no more smoke or smell.

Coal for above, 1 doz. pieces in box.....\$1.15 per box.

ALL PRICES SUBJECT TO DISCOUNT.

Mason's Runner Attachments—★

Adjustable Runners.



Channel Steel Runners.



Drop Rave Runners.



Cart Runners.

Order by numbers.

New Channel Steel Runners, Adjustable to Wide or Narrow Track—		Size of Axle. in.	Carrying Capacity. lbs.	List Price.
No. 1.	Buggy or Phaeton	$\frac{3}{8}$ to 1	600	\$16.00
" 2.	Surrey or Spring Wagon....	1 to $1\frac{1}{8}$	1,000	17.50
" 3.	Carriage or Delivery Wagon	$1\frac{1}{8}$ to $1\frac{1}{4}$	1,800	19.00

If desired, Nos. 1, 2 and 3 can be furnished with wood runners, steel knees and shoes, and adjustable to wide or narrow track.

Wide Track Only—Wood runners, steel knees and shoes.

		Axle:	Capacity.	Price.
No. 3 $\frac{1}{2}$.	Heavy Delivery or Express	$1\frac{1}{4}$ to $1\frac{3}{8}$	2,300	\$20.50
" 4.	Transfer Wagon or Bus....	$1\frac{3}{8}$ to $1\frac{5}{8}$	3,000	22.00
" 4 $\frac{1}{2}$.	Heavy Express or Dray....	$1\frac{5}{8}$ to 2	4,500	25.00

Special Drop Rave Runners—Wood runners, steel knees and shoes.

No. 8.	Wide Track, Light Rockaway or Hearse.....	$1\frac{1}{8}$ to $1\frac{1}{4}$	1,800	\$25.00
No. 9.	Wide Track, Coach or Heavy Hearse	$1\frac{1}{4}$ to $1\frac{1}{2}$	2,500	30.00
No. 10.	Narrow Track, for Coach or Hearse.....	$1\frac{1}{4}$ to $1\frac{1}{2}$	2,500	33.00

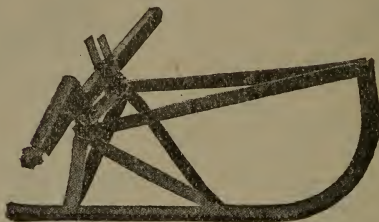
Cart Runners—24 in. high.

No. 11.	Light Road Cart.	$\frac{3}{4}$ to $\frac{7}{8}$	300	\$10.00
" 12.	Heavy Road Cart.....	1 to $1\frac{1}{8}$	400	11.50
" 13.	Delivery or Body Cart.....	$1\frac{1}{8}$ to $1\frac{1}{4}$	600	13.00

ALL PRICES SUBJECT TO DISCOUNT.

**Schofield's New Improved Runner
Attachments—★**

All Steel. No Malleable Iron.



These Runner Attachments as now made embrace every desirable feature such as

Cheapness,

Durability,

Flexibility,

Lightness,

Neatness,

Strength.

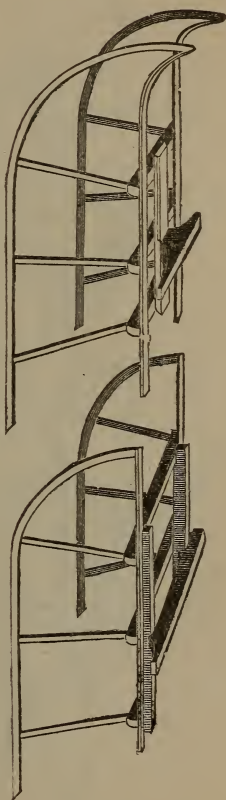
- No. 1. For Buggies and Light Spring
Wagons. Weight 60 lbs.....\$ 9.00 per set.
- No. 2. For Delivery and Milk Wagons.
Weight 70 lbs..... 11.50 “

ALL PRICES SUBJECT TO DISCOUNT.

Finished Grocery Bob Woods—★

	in. tread, 1¼ in. depth,	6 knees, set up.....	\$7.20 per set
1	"	"	"
1½	"	"	7.70
1¾	"	"	8.30
2	"	"	8.50
2¼	"	"	9.50

If knocked down and tied in bundles, deduct 75c. cents per set from list.
Track, 3 feet 2 inches.



ALL PRICES SUBJECT TO DISCOUNT.

Valley Bent Knee Bob Woods—



Prices per set with Irons, including Improved Eye Bolts, T Irons, Knee Irons and Improved Malleable Circle.

1 1/8 in. tread.....	\$12.00 per set.
1 1/4 in. "	13.00 "
1 1/2 in. "	17.00 "

ALL PRICES SUBJECT TO DISCOUNT.

Bob Sleigh Woods—

FINISHED IN THE WHITE READY TO IRON.
Mortised, tenoned and bored. With tongue.



These Bob Sleigh Woods are made of the best material, and are put together in the most thorough manner.

To effect a large saving in freight charges, we ship these woods knocked down, but securely packed in bundles.

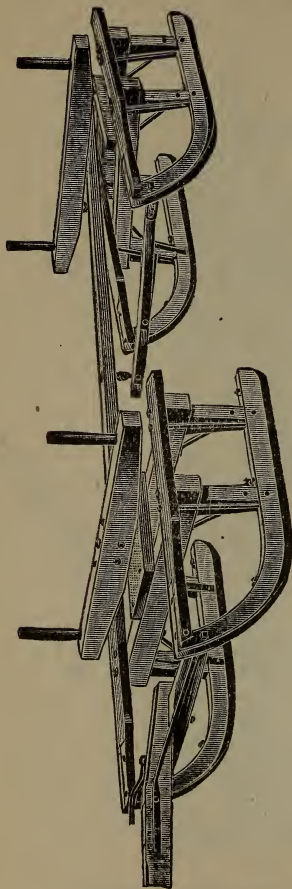
2x3 in Runners, Four-knee Bench..... \$11.50 each.
2x3 1/2 in. Runners, Five-knee Bench..... 13.00 each.

Tongues, \$1.40 each. Long Reaches, 40c. each.

ALL PRICES SUBJECT TO DISCOUNT.

Finished Bob Sleighs—

No. 1. TWO KNEES IN EACH BOB.

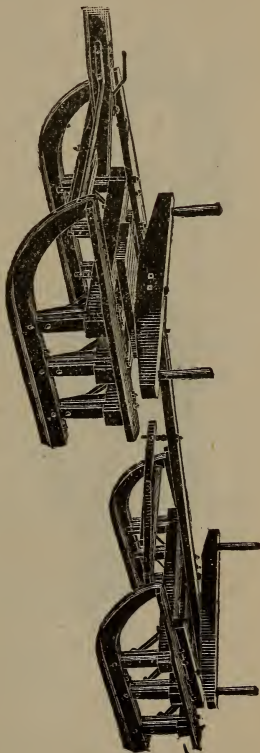


No. 1. Runners are 2x3 in. x 4 feet 6 inches long with turned heel shoes, 40 in. long. 34 inch tread. Beams are 3x4 in. Bolsters 4x4½ in. Tongue braces are supplied with new patent malleable roller caps. Braces are 1½x¼ in., round edge, making the strongest brace ever put on a sled. All sleds have short rear reach with rollers instead of iron bail. This makes them much stronger. Built in the most workmanlike manner possible out of first class material and thoroughly ironed and braced to stand hard usage. Very neatly painted, striped and varnished. A first class sled in every way. Weight 340 lbs. Price\$20.00

ALL PRICES SUBJECT TO DISCOUNT.

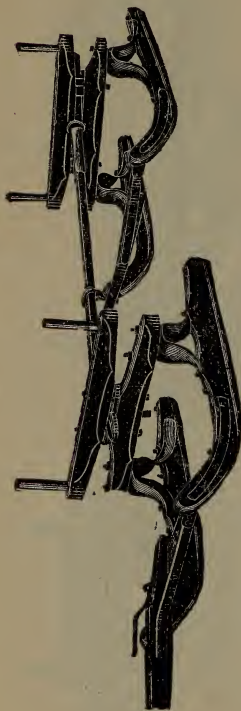
Finished Bob Sleighs—**No. 2. THREE KNEES IN EACH BOB.**

No. 2. Runners are 2x3 in. x 4 feet 10 inches long, with turned heel shoes 42 inches long. Tread 34 in. Beams are 3x4 in. Bolsters 4x4½ in. Tongue braces are supplied with new patent malleable roller caps. Braces are 1½x1¼ in. round edge, making the strongest ever put on a sled. These sleds have short rear reach with rollers instead of iron bail. A heavy sled built for the severest usage. Neatly painted, striped and varnished. Weight 380 pounds. Price.....\$22.50



ALL PRICES SUBJECT TO DISCOUNT.

Mandt's Patent Finished Steel Knee Bob Sleighs—



No. 3. Mandt with 5 ft. 2 in. runners. Size of runner 2x4x5 ft. 2 in.; length of shoe 48 in.; 38 in. tread; bolsters $3\frac{1}{2}$ x4 $\frac{1}{4}$ in.; beams $3\frac{1}{2}$ x4 $\frac{1}{2}$ in.; long reach 3x4x9 ft. 6 in. long. This sled is supplied with a swivel in rear bob; one half of the reach being round and passing through a round hole in the casting which is stationary between the bolster and beam. This makes the best connection ever placed on a sled, as it makes a perfect swivel reach, and, the reach being round, gives much greater strength to the same, and it is utterly impossible to break a reach with this connection if the sled is upset or runs over an obstruction. Sleds are nicely painted, striped and varnished. A first class sled in every respect. Weight 370 lbs. Price.....\$24.00

ALL PRICES SUBJECT TO DISCOUNT.

WEIGHT OF FLAT ROLLED IRON. ONE FOOT IN LENGTH.

WIDTH. INCHES.	THICKNESS.									
	$\frac{1}{16}$ in.	$\frac{3}{16}$ in.	$\frac{1}{4}$ in.	$\frac{5}{16}$ in.	$\frac{3}{8}$ in.	$\frac{7}{16}$ in.	$\frac{1}{2}$ in.	$\frac{5}{8}$ in.	$\frac{3}{4}$ in.	$\frac{7}{8}$ in.
$\frac{1}{16}$	.242	.316	.422	.528	.634	.738	.845	1.056	1.285	1.477
$\frac{3}{16}$	.276	.395	.528	.660	.792	.923	1.056	1.320	1.584	1.846
$\frac{1}{4}$	.316	.474	.633	.792	.950	1.108	1.265	1.584	1.901	2.217
$\frac{5}{16}$	.369	.553	.738	.923	1.108	1.294	1.477	1.846	2.217	2.588
$\frac{3}{8}$	.422	.632	.845	1.056	1.267	1.478	1.690	2.112	2.534	2.956
$\frac{7}{16}$	.474	.711	.950	1.187	1.425	1.663	1.901	2.375	2.850	3.326
$\frac{1}{2}$	.528	.790	1.066	1.320	1.584	1.848	2.112	2.640	3.168	3.696
$\frac{5}{8}$	.581	.869	1.161	1.452	1.742	2.032	2.325	2.904	3.484	4.065
$\frac{3}{4}$	.634	.948	1.266	1.584	1.900	2.217	2.535	3.168	3.802	4.435
$\frac{7}{8}$	.687	1.027	1.372	1.716	2.059	2.402	2.746	3.432	4.119	4.805
$1\frac{1}{16}$	.740	1.106	1.479	1.848	2.218	2.589	2.967	3.696	4.435	5.178
$1\frac{1}{8}$	.793	1.185	1.584	1.980	2.376	2.772	3.168	3.960	4.752	5.544
$1\frac{1}{4}$	.846	1.264	1.689	2.113	2.534	2.957	3.379	4.224	5.069	5.914
$1\frac{3}{8}$	.899	1.343	1.795	2.244	2.693	3.141	3.591	4.488	5.386	6.283
$1\frac{1}{2}$	.952	1.422	1.900	2.376	2.831	3.326	3.802	4.751	5.703	6.653
$1\frac{5}{8}$	1.005	1.501	2.006	2.508	3.009	3.511	4.013	5.016	6.019	7.022
$1\frac{3}{4}$	1.058	1.580	2.112	2.640	3.168	3.696	4.224	5.280	6.336	7.392
$1\frac{7}{8}$	1.124	1.659	2.323	2.904	3.485	4.066	4.647	5.808	6.970	8.132
$2\frac{1}{8}$	1.176	1.817	2.535	3.168	3.802	4.435	5.069	6.337	7.604	8.871
$2\frac{1}{4}$	1.230	1.875	2.746	3.432	4.119	4.805	5.492	6.855	8.227	9.610
$2\frac{3}{8}$	1.284	1.932	2.957	3.696	4.435	5.178	5.914	7.393	8.871	10.350
$2\frac{1}{2}$	1.337	2.000	3.168	3.960	4.752	5.544	6.336	7.921	9.505	11.089
$2\frac{5}{8}$	1.391	2.067	3.376	4.224	5.069	5.914	6.758	8.448	10.138	11.878
$2\frac{3}{4}$	1.444	2.132	3.584	4.488	5.386	6.283	7.181	8.977	10.883	12.678
$2\frac{7}{8}$	1.498	2.199	3.795	4.751	5.703	6.653	7.604	9.505	11.584	13.578
$3\frac{1}{8}$	1.552	2.266	4.006	5.016	6.019	7.022	8.025	10.032	12.035	14.478
$3\frac{1}{4}$	1.605	2.332	4.217	5.280	6.336	7.392	8.448	10.560	12.678	15.378
$3\frac{3}{8}$	1.659	2.399	4.428	5.544	6.653	7.702	8.758	11.100	13.320	16.278
$3\frac{1}{2}$	1.712	2.466	4.639	5.808	6.970	8.132	9.294	11.617	13.960	17.178
$3\frac{5}{8}$	1.766	2.532	4.850	6.072	7.244	8.406	9.568	12.138	14.602	18.078
$3\frac{3}{4}$	1.820	2.599	5.061	6.336	7.505	8.767	9.929	12.678	15.344	18.978
$3\frac{7}{8}$	1.874	2.666	5.272	6.599	7.768	9.029	10.190	13.188	16.086	19.878
$4\frac{1}{8}$	1.928	2.732	5.483	6.862	8.030	9.291	10.452	13.702	16.828	20.778
$4\frac{1}{4}$	1.982	2.800	5.694	7.125	8.292	9.552	10.713	14.216	17.568	21.678
$4\frac{3}{8}$	2.036	2.866	5.905	7.388	8.553	9.813	11.014	14.730	18.308	22.578
$4\frac{1}{2}$	2.090	2.933	6.116	7.650	8.814	10.075	11.275	15.244	19.048	23.478
$4\frac{5}{8}$	2.144	3.000	6.327	7.912	9.075	10.336	11.536	15.758	19.788	24.378
$4\frac{3}{4}$	2.198	3.066	6.538	8.174	9.337	10.597	11.797	16.272	20.528	25.278
$4\frac{7}{8}$	2.252	3.133	6.749	8.436	9.598	10.858	12.058	16.786	21.268	26.178
$5\frac{1}{8}$	2.306	3.200	6.960	8.698	9.859	11.119	12.319	17.290	21.968	27.078
$5\frac{1}{4}$	2.360	3.266	7.171	8.960	10.120	11.380	12.580	17.794	22.708	27.978
$5\frac{3}{8}$	2.414	3.333	7.382	9.222	10.381	11.641	12.841	18.298	23.448	28.878
$5\frac{1}{2}$	2.468	3.400	7.593	9.483	10.642	11.902	13.102	18.802	24.188	29.778
$5\frac{5}{8}$	2.522	3.466	7.804	9.745	10.903	12.163	13.363	19.306	24.928	30.678
$5\frac{3}{4}$	2.576	3.533	8.015	10.006	11.164	12.424	13.624	19.810	25.668	31.578
$5\frac{7}{8}$	2.630	3.600	8.226	10.267	11.425	12.685	13.885	20.314	26.408	32.478
$6\frac{1}{8}$	2.684	3.666	8.437	10.528	11.686	12.946	14.146	20.818	27.148	33.378
$6\frac{1}{4}$	2.738	3.733	8.648	10.790	11.947	13.207	14.407	21.322	27.888	34.278
$6\frac{3}{8}$	2.792	3.800	8.859	11.051	12.208	13.468	14.668	21.826	28.628	35.178
$6\frac{1}{2}$	2.846	3.866	9.070	11.312	12.469	13.729	14.929	22.330	29.368	36.078
$6\frac{5}{8}$	2.900	3.933	9.281	11.573	12.730	14.010	15.190	22.834	30.108	36.978
$6\frac{3}{4}$	2.954	4.000	9.492	11.834	13.011	14.271	15.451	23.338	30.848	37.878
$6\frac{7}{8}$	3.008	4.066	9.703	12.095	13.272	14.532	15.712	23.842	31.588	38.778
$7\frac{1}{8}$	3.062	4.133	9.914	12.356	13.533	14.793	15.973	24.346	32.328	39.678
$7\frac{1}{4}$	3.116	4.200	10.125	12.617	13.794	15.054	16.234	24.850	33.068	40.578
$7\frac{3}{8}$	3.170	4.266	10.336	12.878	14.055	15.315	16.495	25.354	33.808	41.478
$7\frac{1}{2}$	3.224	4.333	10.547	13.139	14.316	15.576	16.756	25.858	34.548	42.378
$7\frac{5}{8}$	3.278	4.400	10.758	13.400	14.577	15.837	17.017	26.362	35.288	43.278
$7\frac{3}{4}$	3.332	4.466	10.969	13.661	14.838	16.098	17.278	26.866	36.028	44.178
$7\frac{7}{8}$	3.386	4.533	11.180	13.922	15.099	16.359	17.539	27.370	36.768	45.078
$8\frac{1}{8}$	3.440	4.600	11.391	14.183	15.360	16.620	17.800	27.874	37.508	45.978
$8\frac{1}{4}$	3.494	4.666	11.602	14.444	15.621	16.881	18.061	28.378	38.248	46.878
$8\frac{3}{8}$	3.548	4.733	11.813	14.705	15.882	17.142	18.322	28.882	38.988	47.778
$8\frac{1}{2}$	3.602	4.800	12.024	14.966	16.143	17.403	18.583	29.386	39.728	48.678
$8\frac{5}{8}$	3.656	4.866	12.235	15.227	16.404	17.664	18.844	29.890	40.468	49.578
$8\frac{3}{4}$	3.710	4.933	12.446	15.488	16.665	17.925	19.105	30.394	41.208	50.478
$8\frac{7}{8}$	3.764	5.000	12.657	15.749	16.926	18.186	19.366	30.898	41.948	51.378
$9\frac{1}{8}$	3.818	5.066	12.868	16.010	17.187	18.447	19.627	31.402	42.688	52.278
$9\frac{1}{4}$	3.872	5.133	13.079	16.271	17.448	18.708	19.888	31.906	43.428	53.178
$9\frac{3}{8}$	3.926	5.200	13.290	16.532	17.709	18.969	20.149	32.410	44.168	54.078
$9\frac{1}{2}$	3.980	5.266	13.501	16.793	17.970	19.230	20.410	32.914	44.908	54.978
$9\frac{5}{8}$	4.034	5.333	13.712	17.054	18.231	19.491	20.671	33.418	45.648	55.878
$9\frac{3}{4}$	4.088	5.400	13.923	17.315	18.492	19.752	20.932	33.922	46.388	56.778
$9\frac{7}{8}$	4.142	5.466	14.134	17.576	18.753	20.013	21.193	34.426	47.128	57.678
$10\frac{1}{8}$	4.196	5.533	14.345	17.837	19.014	20.274	21.454	34.930	47.868	58.578
$10\frac{1}{4}$	4.250	5.600	14.556	18.098	19.275	20.535	21.715	35.434	48.608	59.478
$10\frac{3}{8}$	4.304	5.666	14.767	18.359	19.536	20.796	21.976	35.938	49.348	60.378
$10\frac{1}{2}$	4.358	5.733	14.978	18.620	19.797	21.057	22.237	36.442	50.088	61.278
$10\frac{5}{8}$	4.412	5.800	15.189	18.881	20.058	21.318	22.498	36.946	50.828	62.178
$10\frac{3}{4}$	4.466	5.866	15.400	19.142	20.319	21.579	22.759	37.450	51.568	63.078
$10\frac{7}{8}$	4.520	5.933	15.611	19.403	20.580	21.840	23.020	37.954	52.308	63.978
$11\frac{1}{8}$	4.574	6.000	15.822	19.664	20.841	22.101	23.281	38.458	53.048	64.878
$11\frac{1}{4}$	4.628	6.066	16.033	19.925	21.102	22.362	23.542	38.962	53.788	65.778
$11\frac{3}{8}$	4.682	6.133	16.244	20.186	21.363	22.623	23.803	39.466	54.528	66.678
$11\frac{1}{2}$	4.736	6.200	16.455	20.447	21.624	22.884	24.064	40.000	55.268	67.578
$11\frac{5}{8}$	4.790	6.266	16.666	20.708	21.885	23.145	24.325	40.504	56.008	68.478
$11\frac{3}{4}$	4.844	6.333	16.877	20.969	22.146	23.406	24.586	41.008	56.748	69.378
$11\frac{7}{8}$	4.898	6.400	17.088	21.230	22.407	23.667	24.847	41.512	57.488	70.278
$12\frac{1}{8}$	4.952	6.466	17.299	21.491	22.668	23.928	25.108	42.016	58.228	71.178
$12\frac{1}{4}$	5.006	6.533	17.510	21.752	22.929	24.189	25.369	42.520	58.968	72.078
$12\frac{3}{8}$	5.060	6.600	17.721	22.013	23.190	24.450	25.630	43.024	59.708	72.978
$12\frac{1}{2}$	5.114	6.666	17.932	22.274	23.451	24.711	25.891	43.528	60.448	73.878
$12\frac{5}{8}$	5.168	6.733	18.143	22.535	23.712	24.972	26.152	44.032	61.188	74.778
$12\frac{3}{4}$	5.222	6.800	18.354	22.796	23.973	25.233	26.413	44.536	61.928	75.678
$12\frac{7}{8}$	5.276	6.866								

WEIGHT OF ROUND ROLLED IRON.

ONE FOOT IN LENGTH.

Diam.	Weight.	Diam.	Weight.	Diam.	Weight.	Diam.	Weight.	Diam.	Weight.
$\frac{1}{16}$	.010	$1\frac{1}{8}$	3.360	$2\frac{3}{4}$	20.076	$4\frac{3}{8}$	59.900	$7\frac{1}{2}$	149.328
$\frac{1}{8}$	.041	$1\frac{1}{4}$	3.744	$2\frac{5}{8}$	21.944	$4\frac{1}{2}$	63.094	$7\frac{3}{4}$	159.456
$\frac{3}{16}$	.094	$1\frac{3}{8}$	4.172	3	23.888	5	66.752	8	169.856
$\frac{1}{4}$	.165	$1\frac{1}{2}$	4.573	$3\frac{1}{8}$	25.926	$5\frac{1}{8}$	69.731	$8\frac{1}{4}$	180.696
$\frac{5}{16}$	.261	$1\frac{5}{8}$	5.019	$3\frac{1}{4}$	28.040	$5\frac{1}{4}$	73.172	$8\frac{3}{8}$	191.808
$\frac{3}{8}$	.373	$1\frac{3}{4}$	5.486	$3\frac{3}{8}$	30.240	$5\frac{3}{8}$	76.700	$8\frac{1}{2}$	203.260
$\frac{7}{16}$	.508	$1\frac{7}{8}$	5.972	$3\frac{1}{2}$	32.512	$5\frac{1}{2}$	80.304	9	215.040
$\frac{1}{2}$	.663	$1\frac{5}{8}$	7.010	$3\frac{5}{8}$	34.886	$5\frac{5}{8}$	84.001	$9\frac{1}{4}$	227.152
$\frac{9}{16}$	.840	$1\frac{3}{4}$	8.128	$3\frac{3}{4}$	37.332	$5\frac{3}{4}$	87.776	$9\frac{1}{2}$	239.600
$\frac{5}{8}$	1.043	$1\frac{1}{2}$	9.333	$3\frac{7}{8}$	39.864	$5\frac{7}{8}$	91.634	$9\frac{3}{4}$	252.376
$\frac{11}{16}$	1.255	2	10.616	4	42.464	6	95.552	10	267.008
$\frac{3}{4}$	1.493	$2\frac{1}{8}$	11.988	$4\frac{1}{8}$	45.174	$6\frac{1}{4}$	103.704	$10\frac{1}{4}$	278.924
$\frac{7}{8}$	1.752	$2\frac{1}{4}$	13.440	$4\frac{1}{4}$	47.952	$6\frac{1}{2}$	112.160	$10\frac{1}{2}$	292.688
1	2.032	$2\frac{3}{8}$	14.975	$4\frac{3}{8}$	50.815	$6\frac{3}{4}$	120.960	11	321.216
$1\frac{1}{16}$	2.333	$2\frac{1}{2}$	16.688	$4\frac{1}{2}$	53.760	7	130.048	$11\frac{1}{2}$	351.104
$1\frac{1}{8}$	2.654	$2\frac{5}{8}$	18.293	$4\frac{5}{8}$	56.788	$7\frac{1}{4}$	139.544	12	382.208
$1\frac{3}{8}$	2.997								

WEIGHT OF SQUARE IRON.

ONE FOOT IN LENGTH.

Size.	Weight.	Size.	Weight.	Size.	Weight.	Size.	Weight.	Size.	Weight.
$\frac{1}{16}$	.013	$1\frac{1}{8}$	4.278	$3\frac{1}{8}$	33.010	$5\frac{1}{8}$	88.784	$8\frac{1}{4}$	230.068
$\frac{1}{8}$	.053	$1\frac{1}{4}$	5.280	$3\frac{1}{4}$	35.704	$5\frac{1}{4}$	93.168	$8\frac{1}{2}$	244.220
$\frac{3}{16}$	.119	$1\frac{3}{8}$	6.390	$3\frac{3}{8}$	38.503	$5\frac{3}{8}$	97.657	$8\frac{3}{4}$	258.800
$\frac{1}{4}$	.211	$1\frac{1}{2}$	7.604	$3\frac{1}{2}$	41.408	$5\frac{1}{2}$	102.240	9	273.792
$\frac{5}{16}$	.330	$1\frac{5}{8}$	8.926	$3\frac{5}{8}$	44.418	$5\frac{5}{8}$	106.953	$9\frac{1}{4}$	289.220
$\frac{3}{8}$	.475	$1\frac{3}{4}$	10.352	$3\frac{3}{4}$	47.534	$5\frac{3}{4}$	111.756	$9\frac{1}{2}$	305.056
$\frac{7}{16}$	.647	$1\frac{7}{8}$	11.883	$3\frac{7}{8}$	50.756	$5\frac{7}{8}$	116.671	$9\frac{3}{4}$	321.332
$\frac{1}{2}$	.845	2	13.520	4	54.084	6	121.664	10	337.920
$\frac{9}{16}$	1.069	$2\frac{1}{8}$	15.263	$4\frac{1}{8}$	57.517	$6\frac{1}{4}$	132.040	$10\frac{1}{4}$	355.136
$\frac{5}{8}$	1.320	$2\frac{1}{4}$	17.112	$4\frac{1}{4}$	61.055	$6\frac{1}{2}$	142.816	$10\frac{1}{2}$	373.672
$\frac{11}{16}$	1.597	$2\frac{3}{8}$	19.066	$4\frac{3}{8}$	64.700	$6\frac{3}{4}$	154.012	$10\frac{3}{4}$	390.628
$\frac{3}{4}$	1.901	$2\frac{1}{2}$	21.120	$4\frac{1}{2}$	68.448	7	165.632	11	408.960
$\frac{7}{8}$	2.231	$2\frac{5}{8}$	23.292	$4\frac{5}{8}$	72.305	$7\frac{1}{4}$	177.672	$11\frac{1}{4}$	427.812
1	2.588	$2\frac{3}{4}$	25.560	$4\frac{3}{4}$	76.264	$7\frac{1}{2}$	190.136	$11\frac{1}{2}$	447.024
$1\frac{1}{16}$	2.971	$2\frac{7}{8}$	27.939	$4\frac{7}{8}$	80.333	$7\frac{3}{4}$	203.024	$11\frac{3}{4}$	466.684
$1\frac{1}{8}$	3.380	3	30.416	5	84.480	8	216.336	12	486.552
$1\frac{3}{8}$	3.816								

ALL PRICES SUBJECT TO DISCOUNT.

WEIGHT OF HALF ROUND, OVAL, AND HALF OVAL IRON.

PER LINEAL FOOT

Size Half Round.	Size Oval.	Weight per Foot.	Size Half Oval.	Weight per Foot.
$\frac{3}{8}$	$\frac{3}{8} \times \frac{1}{8}$	.186	$\frac{3}{8} \times \frac{1}{8}$	.093
$\frac{1}{2}$	$\frac{1}{2} \times \frac{1}{4}$	.253	$\frac{1}{2} \times \frac{1}{4}$	.127
$\frac{5}{8}$	$\frac{5}{8} \times \frac{1}{4}$	.331	$\frac{5}{8} \times \frac{1}{4}$	.166
$\frac{3}{4}$	$\frac{3}{4} \times \frac{1}{2}$	.517	$\frac{3}{4} \times \frac{1}{2}$	.259
$\frac{7}{8}$	$\frac{7}{8} \times \frac{1}{2}$	.744	$\frac{7}{8} \times \frac{1}{2}$	.372
1	1 x $\frac{1}{2}$	1.013	1 x $\frac{1}{2}$	.507
$1\frac{1}{8}$	$1\frac{1}{8} \times \frac{1}{2}$	1.323	$1\frac{1}{8} \times \frac{1}{2}$	.662
$1\frac{1}{4}$	$1\frac{1}{4} \times \frac{1}{2}$	1.624	$1\frac{1}{4} \times \frac{1}{2}$	.812
$1\frac{1}{2}$	$1\frac{1}{2} \times \frac{1}{2}$	2.067	$1\frac{1}{2} \times \frac{1}{2}$	1.034
		2.976	$1\frac{1}{2} \times \frac{3}{8}$	1.488

WEIGHT OF HOOP IRON.

PER LINEAL FOOT ROLLED TO PARTRIDGE GAUGE.

Width in Inches.	Number of Wire Gauge.									
	13	14	15	16	17	18	19	20	21	22
$\frac{5}{8}$.....	....	.1628	....	.1302	.1139	.0976	.0895	.0814	.0731	.0651
$\frac{3}{4}$.....	....	.1953	....	.1562	.1367	.1171	.1074	.0976	.0877	.0781
$\frac{7}{8}$.....	....	.2278	....	.1822	.1595	.1367	.1253	.1189	.1023	.0912
1.....	....	.2604	....	.2083	.1822	.1562	.1432	.1302	.1169	.1041
$1\frac{1}{8}$	.352	.293	.264	.234	.205	.176	.161	.146	....	....
$1\frac{1}{4}$	.391	.326	.293	.26	.229	.195	.179	.163	....	....
$1\frac{3}{8}$	.43	.358	.322	.286	.251	.215	.197	.179	....	....
$1\frac{1}{2}$	.469	.391	.352	.313	.273	.234	.215	.195	....	....
$1\frac{5}{8}$	.508	.423	.381	.339	.296	.254	....	....	....	....
$1\frac{3}{4}$	.547	.456	.41	.365	.319	.273	....	....	....	....
2.....	.625	.521	.460	.417	.365	.313	....	....	....	....
$2\frac{1}{4}$	.703	.586	.527	.469	....	....	....	....	....	....
$2\frac{1}{2}$	.781	.651	.586	.521	....	....	....	....	....	....

WEIGHT OF TIRE IRON.

PER SET OF 54 FEET.

Width in Inches.	Thickness.										
	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	1	1	1
$\frac{3}{4}$	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
$\frac{7}{8}$	25	34	....	....	....	....	....	....	....	....	....
1	30	40	50	....	....	....	....	....	....	....	....
$1\frac{1}{8}$	34	45	57	68	80	91	....	....	....	....	....
$1\frac{1}{4}$	38	51	64	77	90	103	116	....	....	....	....
$1\frac{3}{8}$	....	57	71	85	100	114	128	143	....	....	....
$1\frac{1}{2}$	....	63	78	94	109	126	141	157	....	....	....
$1\frac{5}{8}$	....	68	85	103	118	137	154	171	201	239	273
$1\frac{3}{4}$	....	....	....	111	130	148	166	185	223	259	296
2	....	....	....	120	140	160	180	200	239	279	319
$2\frac{1}{4}$	....	....	....	135	160	180	250	228	274	319	365
$2\frac{1}{2}$	....	....	....	....	....	205	....	256	304	359	416
	....	....	....	....	....	223	....	285	342	399	456

ALL PRICES SUBJECT TO DISCOUNT.

WEIGHTS OF ANGLES.

Weights per foot, corresponding to thicknesses varying by $\frac{1}{16}$ inch.

One cubic foot weighing 480 lbs.

Sizes, Inches.	$\frac{1}{16}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$1\frac{1}{8}$	$\frac{3}{4}$	$1\frac{1}{4}$	%
Equal Legs.													
6 X 6	...	...	...	...	...	16.75	19.14	21.53	23.92	26.31	28.70	31.10	33.50
5 X 5	...	...	...	...	10.46	12.66	14.87	17.08	19.29	21.50	23.70	...	...
4 X 4	...	...	...	...	9.50	11.16	12.82	14.49	16.16	17.83	19.50	...	...
3½ X 3½	...	...	...	...	8.30	9.75	11.20	12.65	14.10	15.55	17.00	...	...
3¼ X 3¼	...	...	...	...	7.70	9.05	10.40	11.75	13.10	14.45	15.80	...	...
3 X 3	...	...	4.83	6.05	7.28	8.51	9.74	10.97	12.20	...	...	...	...
2¾ X 2¾	...	...	4.41	5.50	6.60	7.70	8.80	...	...	...	...	...	...
2½ X 2½	...	...	4.00	5.00	6.00	7.00	8.00	...	...	...	...	...	...
2¼ X 2¼	...	...	3.57	4.47	5.38	6.29	7.20	...	...	...	...	...	...
2 X 2	1.63	2.42	3.21	4.00	4.80	5.60	...	...	...	...	...	...	...
1¾ X 1¾	1.42	2.13	2.84	3.56	4.28	5.00	...	...	...	...	...	...	...
1½ X 1½	1.21	1.80	2.40	3.00	3.60	...	...	...	...	...	...	...	...
1¼ X 1¼	1.00	1.50	2.00	...	...	...	...	...	...	...	...	...	...
1 X 1	.79	1.20	...	...	...	...	...	...	...	...	...	...	...
¾ X ¾	.60	.90	...	...	...	...	...	...	...	...	...	...	...
Uneq. Legs.													
6 X 4	...	...	...	...	12.50	14.44	16.38	18.32	20.26	22.20	24.15	26.10	...
6 X 3½	...	...	...	...	11.50	13.24	14.98	16.72	18.47	20.22	21.97	23.72	...
5 X 4	...	...	...	...	10.80	12.61	14.42	16.24	18.06	19.88	21.70	...	...
5 X 3½	...	...	...	...	10.20	11.26	13.72	15.49	17.26	19.03	20.80	...	...
5 X 3	...	...	...	...	9.50	11.16	12.82	14.49	16.16	17.83	19.50	...	...
4 X 3½	...	...	...	...	8.90	10.46	12.02	13.59	15.16	16.73	18.30	...	...
4 X 3	...	...	...	...	8.30	9.75	11.20	12.65	14.10	15.55	17.00	...	...
3½ X 2½	...	...	...	...	7.50	8.75	10.00	11.25	12.50	13.75	15.00	...	...
3¼ X 3	...	...	...	...	7.70	9.05	10.40	11.75	13.10	14.45	15.80	...	...
3¼ X 2½	...	...	4.80	6.05	7.30	8.55	9.80	...	...	...	...	...	...
3 X 2½	...	...	4.60	5.75	6.90	8.05	9.20	...	...	...	...	...	...
3¼ X 2	...	...	4.20	5.31	6.37	7.43	8.50	...	...	...	...	...	...
3 X 2	...	3.03	3.98	4.93	5.88	6.84	7.80	...	...	...	...	...	...
2½ X 2	...	2.72	3.45	4.18	4.92	5.66	6.40	...	...	...	...	...	...

ALL PRICES SUBJECT TO DISCOUNT.

STANDARD THICKNESS AND WEIGHT OF SHEET IRON.**AMERICAN GAUGE.**

Number of gauge	THICKNESS		WEIGHT	
	Approximate thickness in fractions of an inch	Approximate thickness in decimal parts of an inch	Weight per square foot in OUNCES avoirdupois	Weight per square foot in POUNDS avoirdupois
0000000	1-2	.5	320	20.00
000000	15-32	.46875	300	18.75
00000	7-16	.4375	280	17.50
0000	13-32	.40625	260	16.25
000	3-8	.375	240	15.
00	11-32	.34375	220	13.75
0	5-16	.3125	200	12.50
1	9-32	.28125	180	11.25
2	17-64	.265625	170	10.625
3	1-4	.25	160	10.
4	15-64	.234375	150	9.375
5	7-32	.21875	140	8.75
6	13-64	.203125	130	8.125
7	3-16	.1875	120	7.5
8	11-64	.171875	110	6.875
9	5-32	.15625	100	6.25
10	9-64	.140625	90	5.625
11	1-8	.125	80	5.
12	7-64	.109375	70	4.375
13	3-32	.09375	60	3.75
14	5-64	.078125	50	3.125
15	9-128	.0703125	45	2.8125
16	1-16	.0625	40	2.5
17	9-160	.05625	36	2.25
18	1-20	.05	32	2.
19	7-160	.04375	28	1.75
20	3-80	.0375	24	1.50
21	11-320	.034375	22	1.375
22	1-32	.03125	20	1.25
23	9-320	.028125	18	1.125
24	1-40	.025	16	1.
25	7-320	.021875	14	.875
26	3-160	.01875	12	.75
27	11-640	.0171875	11	.6875
28	1-64	.015625	10	.625
29	9-640	.0140625	9	.5625
30	1-80	.0125	8	.5
31	7-640	.0109375	7	.4375
32	13-1280	.01015625	6½	.40625
33	3-320	.009375	6	.375
34	11-1280	.00859375	5½	.34375
35	5-640	.0078125	5	.3125
36	9-1280	.00703125	4½	.28125
37	17-2560	.006640625	4¼	.265625
38	1-160	.00625	4	.25

ALL PRICES SUBJECT TO DISCOUNT.

**AVERAGE WEIGHT OF SQUARE HEAD
MACHINE BOLTS PER 100.**

Length.	DIAMETER.								
	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
1½	4.0	6.8	10.6	15.0	23.9	40.5	70.0	.....	.....
1¾	4.4	7.3	11.3	16.1	25.1	42.7	73.1	.....	.....
2	4.7	7.8	12.0	17.2	26.3	44.8	76.2	.....	.....
2¼	5.1	8.4	12.6	18.2	27.7	47.0	79.3	.....	.....
2½	5.4	8.9	13.3	19.2	29.0	49.2	82.4	120.5	.....
2¾	5.8	9.5	14.0	20.2	30.4	51.4	85.5	124.7	.....
3	6.1	10.0	14.7	21.2	31.8	53.5	88.7	128.9	185.0
3½	6.8	11.1	16.0	23.2	34.7	57.9	95.0	137.4	196.0
4	7.5	12.2	17.4	25.2	37.5	62.3	101.2	145.8	207.0
4½	8.2	13.2	18.7	27.2	40.2	66.7	107.5	159.2	218.0
5	8.9	14.3	20.0	29.1	43.0	71.0	113.7	167.7	229.0
5½	9.6	15.4	21.4	31.2	45.7	75.4	120.0	176.1	240.0
6	10.3	16.5	22.8	33.1	48.4	79.8	126.2	184.6	251.0
6½	11.0	17.6	24.1	35.1	51.2	84.1	132.5	193.0	262.0
7	11.7	18.6	25.9	37.1	54.0	88.5	138.7	201.4	273.0
7½	12.4	19.7	27.7	39.1	56.7	92.9	145.0	209.9	284.0
8	13.1	20.8	29.5	41.0	59.4	97.2	151.2	218.3	295.0
9	.....	.....	33.1	45.0	64.8	106.0	163.7	240.2	317.0
10	.....	.....	36.7	49.0	70.3	114.7	176.2	257.1	339.0
11	.....	.....	40.4	53.0	75.8	123.5	188.7	273.9	360.0
12	.....	.....	44.0	57.0	81.3	132.2	201.0	290.0	382.0
13	.....	.....	.....	.....	86.7	140.7	213.4	307.7	404.0
14	.....	.....	.....	.....	92.2	149.2	225.9	324.5	426.0
15	.....	.....	.....	.....	97.7	157.6	238.3	341.4	448.0
16	.....	.....	.....	.....	103.1	166.1	250.8	358.3	470.0
17	.....	.....	.....	.....	108.6	174.6	263.2	375.2	492.0
18	.....	.....	.....	.....	114.1	183.1	275.6	392.0	514.0
19	.....	.....	.....	.....	119.5	191.5	288.1	408.9	536.0
20	.....	.....	.....	.....	125.0	200.0	300.5	425.8	558.0
Per inch additional	1.4	2.2	3.6	4.0	5.5	8.5	12.4	16.9	22.0

**APPROXIMATE WEIGHT OF NUTS AND BOLT
HEADS, IN POUNDS.**

Diam. of Bolt in inches,	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Weight of Hexagon Nut and Head	.017	.042	.057	.109	.128	.267	.43
Weight of Square Nut and Head	.021	.049	.069	.120	.164	.320	.55
Diam. of Bolt in inches.	$\frac{3}{8}$	1	1¼	1½	1¾	2	2½
Weight of Hexagon Nut and Head	.73	1.10	2.14	3.78	5.6	8.75	17.0
Weight of Square Nut and Head	.88	1.31	2.56	4.42	7.0	10.5	21.6

ALL PRICES SUBJECT TO DISCOUNT.

IRON RIVETS.

WEIGHT PER 100 RIVETS.

LENGTH UNDER HEADS.	DIAMETER.						
	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
$\frac{1}{8}$ in.	.594	1 207	1 876	3 300	-----	-----	-----
$\frac{1}{4}$ "	.720	1.379	2.062	3 687	-----	-----	-----
$\frac{3}{8}$ "	.846	1.551	2.248	4 074	-----	-----	-----
$\frac{1}{2}$ "	.972	1.723	2.434	4 461	-----	-----	-----
1 "	1.098	1.895	2.620	4 848	9 66	16 79	26.49
$1\frac{1}{8}$ "	1.224	2.067	2.806	5 235	10 34	17 86	27.99
$1\frac{1}{4}$ "	1.350	2.238	2.992	5 616	11 04	18.96	29 61
$1\frac{3}{8}$ "	1.476	2.410	3.178	6 003	11 73	20 03	31.13
$1\frac{1}{2}$ "	1.602	2.582	3.364	6 402	12 43	21.04	32.74
$1\frac{3}{4}$ "	1.728	2.754	3.550	6 789	13.12	22.11	34.25
$1\frac{7}{8}$ "	1.854	2.920	3.736	7.179	13.81	23.21	35.86
2 "	1.984	3.098	3.922	7 566	14.50	24 28	37.37
$2\frac{1}{8}$ "	2.106	3.269	4.108	7 956	15 19	25.48	38.99
$2\frac{1}{4}$ "	2.232	3.441	4.294	8 343	15 89	26 56	40 40
$2\frac{3}{8}$ "	2.358	3.613	4.480	8 733	16 57	27 65	42 11
$2\frac{1}{2}$ "	2.484	3.785	4.666	9 120	17 26	28 73	43 67
$2\frac{7}{8}$ "	2.610	3.957	4.852	9 511	17.95	29.82	45 24
$2\frac{3}{4}$ "	2.736	4.129	5.038	9.898	18.64	30 90	46.80
$2\frac{1}{2}$ "	2.862	4 301	5.224	10 29	19.33	31 99	48.36
$2\frac{1}{2}$ "	2.988	4.473	5.410	10.67	20.02	33.08	49 92
3 "	3.114	4.644	5.096	11.06	20.71	34 18	51 49
$3\frac{1}{8}$ "	3.240	4.816	5.782	11.44	21 40	35.27	53 05
$3\frac{1}{4}$ "	3.366	4.988	5.968	11.84	22.09	36.35	54 61
$3\frac{3}{8}$ "	3.492	5.160	6.154	12.23	22 78	37 44	56.17
$3\frac{1}{2}$ "	3.618	5.332	6 340	12.62	23 48	38 52	57.74
$3\frac{3}{4}$ "	3.744	5.504	6.526	13.01	24 17	39.60	59.30
$3\frac{7}{8}$ "	3.870	5.676	6.712	13.39	24 86	40 69	60.86
4 "	3.996	5.848	6.898	13.78	25.55	41 78	62.42
$4\frac{1}{8}$ "	4.022	6.019	7.084	14.17	26.24	42 87	63.99
$4\frac{1}{4}$ "	4.148	6.191	7.270	14.56	26.93	43.94	65 55
$4\frac{3}{8}$ "	4.274	6.393	7.456	14.95	27.62	45.01	67.11
$4\frac{1}{2}$ "	4.526	6.565	7.829	15 73	29.20	47.15	70.23
$4\frac{3}{4}$ "	4.778	7.081	8.200	16.51	30.78	49 29	73.35
5 "	5.030	7.425	8.572	17.29	32.36	51.43	76 47
$5\frac{1}{4}$ "	5.282	7.769	8.944	18.07	33.94	53.57	79.59
$5\frac{1}{2}$ "	5.534	8.113	9.316	18.85	35.52	55.71	82 71
$5\frac{3}{4}$ "	5.756	8.457	9.688	19 63	37.10	57.85	85.83
6 "	6.008	8.801	10.060	20.41	38 68	59.99	88 95

RANKINE'S RIVETING RULES.

Diameter of Rivet for Plates less than $\frac{1}{2}$ inch thick, to be equal to twice the thickness of the Plate. For Plates $\frac{1}{2}$ inch thick and upwards, $1\frac{1}{2}$ times thickness of Plate. The length of rivet iron required to make the "head," equals $2\frac{1}{2}$ times the diameter of the Rivet.

BOILER-MAKER'S RULE.

Diameter of Rivet equals twice the thickness of the Plate; the pitch equals $3\frac{1}{2}$ to 3 diameters of the Rivet. Lap for single joints equals 3 diameters. Laps for double joints equals 5 diameters.

ALL PRICES SUBJECT TO DISCOUNT.

SPEED OF DRILLS.

The following table shows the revolutions per minute for Drills from $\frac{1}{8}$ inch to 2 inch diameter, as usually applied.

Diameter of Drills.	Speed for Steel.	Speed for Iron.	Speed for Brass.	Diameter of Drills.	Speed for Steel.	Speed for Iron.	Speed for Brass.
$\frac{1}{8}$ inch.	340	1280	1560	$1\frac{1}{8}$ inch.	54	75	95
$\frac{1}{4}$ "	460	660	785	$1\frac{1}{4}$ "	52	70	90
$\frac{3}{8}$ "	310	420	540	$1\frac{3}{8}$ "	49	66	85
$\frac{1}{2}$ "	230	320	400	$1\frac{1}{2}$ "	46	62	80
$\frac{5}{8}$ "	190	260	320	$1\frac{3}{4}$ "	44	60	75
$\frac{3}{4}$ "	150	220	260	$1\frac{7}{8}$ "	42	58	72
$\frac{7}{8}$ "	130	185	230	$1\frac{7}{8}$ "	40	56	69
1 "	115	160	200	$1\frac{1}{2}$ "	39	54	66
$1\frac{1}{8}$ "	100	140	180	$1\frac{1}{4}$ "	37	51	63
$1\frac{1}{4}$ "	95	130	160	$1\frac{3}{8}$ "	36	49	60
$1\frac{3}{8}$ "	85	115	145	$1\frac{1}{2}$ "	34	47	58
$1\frac{1}{2}$ "	75	105	130	$1\frac{3}{4}$ "	33	45	56
$1\frac{3}{4}$ "	70	100	120	$1\frac{7}{8}$ "	32	43	54
$1\frac{7}{8}$ "	65	90	115	$1\frac{1}{2}$ "	31	41	52
2 "	62	85	110	$1\frac{1}{4}$ "	30	40	51
	58	80	100	2 "	29	39	49

One inch to be drilled in soft cast iron will usually require : For $\frac{1}{8}$ inch Drill, 125 revolutions; for $\frac{1}{4}$ inch Drill, 120 revolutions; for $\frac{3}{8}$ inch Drill, 100 revolutions; for 1 inch Drill, 95 revolutions.

APPROXIMATE WEIGHT AND STRENGTH OF CORDAGE.

Circumference in Inches.	Diameter in Inches.	Weight of 1,000 feet.	Weight of 840 feet.	Weight per Fathom.	No. of Feet in One Pound.	Strength of New Manila Rope.
Circ.	Dia.	Pounds.	Pounds.	Pounds.	Feet per Lb.	Pounds.
$\frac{3}{4}$ in. 6 Thread	$\frac{1}{4}$	23	19	$\frac{1}{4}$	43	450
1 " 9 "	$\frac{7}{16}$	33	28	$\frac{7}{16}$	30	750
$1\frac{1}{8}$ " 12 "	$\frac{1}{2}$	42	35	$\frac{1}{2}$	24	950
$1\frac{1}{4}$ "	$\frac{5}{8}$	52	44	$\frac{5}{8}$	19	1,200
$1\frac{3}{8}$ "	$\frac{3}{4}$	74	62	$\frac{3}{4}$	13 $\frac{1}{2}$	1,700
$1\frac{1}{2}$ "	$\frac{7}{8}$	101	85	$\frac{7}{8}$	10	2,300
2 "	1	132	111	1	7 $\frac{1}{2}$	3,000
$2\frac{1}{8}$ "	$1\frac{1}{8}$	167	140	$1\frac{1}{8}$	6	3,900
$2\frac{1}{4}$ "	$1\frac{1}{4}$	207	174	$1\frac{1}{4}$	5	4,700
$2\frac{1}{2}$ "	$1\frac{1}{2}$	250	210	$1\frac{1}{2}$	4	5,700
3 "	$1\frac{3}{8}$	297	249	$1\frac{3}{8}$	3 $\frac{1}{2}$	6,750
$3\frac{1}{8}$ "	$1\frac{3}{8}$	349	293	$2\frac{1}{8}$	2 $\frac{7}{8}$	7,900
$3\frac{1}{4}$ "	$1\frac{3}{4}$	405	340	$2\frac{1}{4}$	2 $\frac{1}{2}$	9,200
$3\frac{1}{2}$ "	$1\frac{1}{2}$	465	391	$2\frac{1}{2}$	2 $\frac{1}{4}$	10,600
4 "	$1\frac{3}{4}$	529	444	$3\frac{1}{4}$	1 $\frac{9}{16}$	12,000
$4\frac{1}{8}$ "	$1\frac{7}{8}$	597	501	$3\frac{1}{8}$	1 $\frac{3}{8}$	13,500
$4\frac{1}{4}$ "	$1\frac{7}{8}$	669	562	4 "	1 $\frac{1}{2}$	15,250
$4\frac{1}{2}$ "	$1\frac{1}{2}$	746	627	$4\frac{1}{2}$ "	1 $\frac{1}{4}$	16,900
5 "	$1\frac{1}{2}$	826	694	5 "	1 $\frac{1}{5}$	18,750
$5\frac{1}{8}$ "	$1\frac{1}{2}$	1,000	840	6 "	1	22,700
6 "	$1\frac{3}{8}$	1,190	1,000	$7\frac{1}{8}$ "	10 Inches	27,000
$6\frac{1}{4}$ "	2	1,291	1,084	$7\frac{1}{4}$ "	9 $\frac{3}{16}$	29,300
$6\frac{1}{2}$ "	$2\frac{1}{8}$	1,397	1,178	$8\frac{1}{8}$ "	8 $\frac{1}{2}$	31,600
7 "	$2\frac{1}{4}$	1,620	1,361	$9\frac{1}{4}$ "	7 $\frac{1}{2}$	36,750
$7\frac{1}{4}$ "	$2\frac{3}{8}$	1,860	1,562	$11\frac{1}{8}$ "	6 $\frac{1}{2}$	42,200
8 "	$2\frac{1}{2}$	2,116	1,777	$12\frac{1}{8}$ "	5 $\frac{3}{4}$	48,000
$8\frac{1}{4}$ "	$2\frac{3}{4}$	2,388	2,006	$14\frac{1}{4}$ "	5	54,200
9 "	$2\frac{7}{8}$	2,678	2,250	$16\frac{1}{4}$ "	4 $\frac{1}{2}$	60,700
$9\frac{1}{4}$ "	3	2,983	2,506	$17\frac{1}{8}$ "	4	67,700
10 "	$3\frac{1}{4}$	3,306	2,777	$19\frac{1}{8}$ "	3 $\frac{3}{8}$	75,000

Manila and Sisal Rope weigh about alike. Tarred Hemp Cordage weighs about one-fourth more. Hawser Laid Rope weighs one-sixth less. Relative strength of Manila to Sisal is about as seven is to five.

ALL PRICES SUBJECT TO DISCOUNT.

AXLES.

AVERAGE WEIGHTS PER SET.

Size of Axle.	Standard Length of Box.	Original Concord, Long Bed.	Original Concord, Short Bed.	Original Concord, Coach Bed.	Original Concord, Full Square Beds.	Concord Express, Standard Bed.	Concord Express, Coach Bed.	Hf. Patent Axles, Long Beds.	Hf. Patent Axles, Short Beds.
$\frac{3}{4}$	6							23	13
$\frac{7}{8}$	6							30	17
$1\frac{1}{8}$	6	35	21	45	48			40	22
$1\frac{1}{4}$	$6\frac{1}{2}$	45	29	55	58	55	60	52	28
$1\frac{1}{2}$	7	58	38	68	70	70	72	66	36
$1\frac{3}{4}$	$7\frac{1}{2}$	70	50	85	88	85	90	82	48
$2\frac{1}{8}$	8	85	63	100	105	100	110	100	62
$2\frac{1}{4}$	$8\frac{1}{2}$	100	77	115	120	115	130	120	78
$2\frac{1}{2}$	9	120	90	135	145	135	155	142	96
$2\frac{3}{4}$	$9\frac{1}{2}$	140	105	155	165	155	185	166	116
2	10	160	125	180	195	180	210	192	138
$2\frac{1}{8}$	$10\frac{1}{2}$	185	140	205	220	205	240	220	162
$2\frac{1}{4}$	11	210	160	235	250	235	270	250	188
$2\frac{1}{2}$	$11\frac{1}{2}$	240	180	270	300	270	310		
$2\frac{3}{4}$	12	275	200	310	350	310	355		
2	$12\frac{1}{2}$	310		350	385	350	400		
$2\frac{1}{4}$	13	350		400	440	400	450		
3	$13\frac{1}{2}$	425		450	500	450	510		
$3\frac{1}{4}$	14	525		575	650				
$3\frac{1}{2}$	$14\frac{1}{2}$	650		725	825				
$3\frac{3}{4}$	15	775		875	975				
4	$15\frac{1}{2}$	900		1000	1150				

ALL PRICES SUBJECT TO DISCOUNT.

CARRYING CAPACITY OF SPRINGS.

The capacities here given are not exact, but from them a fair estimate can be made.

Width inches.	Number of Leaves.	Length inches.	Shape.	Carrying Ca- pacity in lbs.
1 1/4	3	34	Elliptic	280
1 1/4	3	36	"	260
1 1/4	4	34	"	360
1 1/4	4	36	"	345
1 3/8	4	34	"	380
1 3/8	4	36	"	360
1 3/8	5	36	"	365
1 1/2	3	34	"	320
1 1/2	4	34	"	400
1 1/2	4	36	"	385
1 1/2	5	34	"	465
1 1/2	5	36	"	455
1 1/2	6	36	"	570
1 1/2	6	38	"	545
1 3/4	5	36	"	538
1 3/4	5	38	"	510
1 3/4	6	36	"	595
1 3/4	6	38	"	585
2	6	36	"	580
2	7	36	"	780
2	7	38	"	750
1 1/4	4	50	Concord side	250
1 1/4	4	52	"	225
1 3/8	4	50	"	275
1 1/2	4	50	"	325
1 1/2	4	52	"	300
1 3/8	5	52	"	360
1 3/4	6	54	"	475
1 1/4	side 4 cross 5		Platform	600
1 3/8	" 4 "	5	"	750
1 1/2	" 4 "	5	"	925
1 1/2	" 5 "	6	"	1,150
1 3/8	" 6 "	7	"	1,500
1 3/4	" 5 "	6	"	1,500
1 3/4	" 6 "	7	"	2,000
2	" 6 "	7	"	2,600
2	" 7 "	8	"	2,800
2 1/4	" 8 "	9	"	3,800
2 1/2	" 9 "	10	"	4,200
2 3/8	" 10 "	11	"	4,700
2 1/4	" 9 "	10	"	4,500
2 3/4	" 10 "	11	"	5,000
2 3/4	" 12 "	13	"	5,500
3	" 10 "	12	"	5,500
3	" 12 "	14	"	6,000

ALL PRICES SUBJECT TO DISCOUNT.

ESTIMATED SHIPPING WEIGHTS.

WOOD MATERIAL.

All of the weights given below are for good *Forest Growth* and *Dry Stock*. Unseasoned will weigh from 10 to 25 per cent. more. An additional 10 or 15 per cent. should be added for choicest grade of timber, more especially in Spokes, Rims, Shafts, Poles, Singletrees and Neckyokes.

Oak Spokes.

Size.....	2,	2½,	2¾,	2⅞,	2½,	2⅝,	2¾,	3,	3¼,	3½,	3¾,	4	inch.
Lbs. per set..	55.	60.	70.	75.	80.	90.	95.	110.	120.	130.	145.	175.	

Hickory Spokes.

Size.....	¾,	1,	1½,	1¾,	1¾,	1¾,	1½,	1½,	1¾,	1¾,	1¾,	2	inch.
Lbs. per set..	20.	25.	28.	32½	32½	36.	40.	46.	48.	54.	60.		

Oak Hubs.

Diameter..	6,	6½,	7,	7½,	8,	8¼,	8½,	9,	9½,	10,	10½,	11,	12	inch.
Lbs. per set,	20.	25.	30.	35.	40.	45.	50.	60.	75.	85.	95.	110.	125.	

Elm Hubs.

Diameter..	3,	3¼,	3½,	3¾,	4,	4¼,	4½,	4¾,	5,	5¼,	5½,	5¾,	6,	6½,	7,	7½,	8	in.
Lbs. per set,	4.	4½.	5.	5½.	7.	8.	9.	10.	11.	12.	13.	14.	15.	18.	25.	30.	37.	

Sawed Wagon Felloes.

Size.....	1¼x2¼,	2x2½,	2x2⅝,	2x2¾,	2x3,	2¼x3,	2½x3	inch.
Lbs. per set,	75.	85.	90.	95.	115.	130.	160.	

Bent Felloes.

Size	¾,	1,	1½,	1¾,	1¾,	1½,	1½,	1¾,	1¾,	2,	1½x2,	2x2½	inch.
Lbs. per set,	21.	25.	30.	35.	45.	50.	55.	65.	75.	80.	75.	95.	

Size.....	2x2½,	2½x2,	2¾x2,	3x2,	3½x2,	4x2,	5x2,	6x2	inch.
Lbs. per set,	100.	100.	110.	120.	140.	160.	200.	240.	

Bent Shafts.

Size.....	1¾x2,	1½x2,	1½x2¼,	1¾x2¼,	2x2½,	2x2¾,	2x3	inch.
Lbs. per dozen pairs,	135.	150.	170.	180.	220.	240.	265.	

Bent Poles.

Size	1¾x2¼,	2x2½,	2x2¾,	2x3,	2¼x3	inch.
Lbs. per dozen.....	155.	180.	200.	220.	245.	

Hickory Axles.

Size.....	2½x3½,	3x4,	3½x4½,	4x5,	4x6,	4½x5½,	5x6,	6x7	inch.
Lbs. per pair,	37,	48.	64.	80.	96.	97.	120.	200.	

Bolsters and Sandboards.

4 feet long.

Size.....	3x4,	3½x4½,	3½x5,	4x5,	4½x5½,	5x6	inch.
Lbs. each	16.	21.	23.	27	33.	40.	

Reaches.

Size.....	2x4x8 ft.	2x4x10 ft.	2x4x12 ft.	2½x4½x8 ft.	2½x4½x10 ft.	2½x4½x12 ft.	
Lbs. each	22.	27.	32.	31.	40	48.	

Wagon Tongues.

Size....	3,	3½,	4,	4½,	4x5,	5x5	inch.
Lbs. each	28.	36	48	54	60.	75.	

ALL PRICES SUBJECT TO DISCOUNT.

ESTIMATED SHIPPING WEIGHTS.

WOOD MATERIAL.

Brake Bars.

Size.....	2x5,	2½x5,	2½x6,	3x6,	3x7,	3x8	inch.
Lbs. each...	20.	26.	30.	36.	42.	48	

*Wagon Gearing.**Bent Haws.*

11 Pieces.....	55 lbs. per set.	| 2x3.....	20 lbs. each.
----------------	------------------	----------	---------------

Singletrees.

	Buggy,	Express,	Oval Wagon,	Round Wagon,	Ironed Wagon
Lbs. per dozen	22.	26.	35.	40.	70.

Neckyokes.

	Buggy,	Express,	Wagon,	Ironed Wagon
Lbs. per dozen.....	25.	30.	45.	90.

Eveners.

	Buggy,	Express,	N. T. Wagon,	W. T. Wagon.
Lbs. per dozen....	60.	75.	120.	135.

Bows.

	Short Buggy,	Long Buggy,	Express,	Wagon.
Lbs. per set.....	15	20.	25.	30.

Plow Handles.

Size.....	1¼x2,	1¼x2¼,	1¾x2½.	1½x2½	inch.
Lbs. per dozen.....	48	51.	54.	60.	

Plow Beams.

	One Horse,	Two Horse,	Three Horse.
Lbs. each.....	18.	24.	27

Bob Runners.

Size.....	2x2½,	2x2¾,	2x3,	2x3½,	2x4,	2x4½,	2x5	2½x5	inch.
Lbs. per set.	35.	40.	45.	60.	65.	75.	115.	145.	

Bob Gearing.

	Beams,	Knees,	Raves,	Rollers,	Saddle,	Reach,	Benches.
Lbs. per set..	60.	40.	60.	25.	10.	7½.	120.

Cutter Stuff.

	1 Seat Sq.,	2 Seat Sq.,	1 Seat Port.,	2 Seat Port.,	1 Seat Swell,	2 Seat Swell.
Lbs. per set,	30.	35.	35.	40.	35.	40.

Cutter Woods.

	1 Seat Sq.,	2 Seat Sq.,	1 Seat Port.,	2 Seat Port.,	1 Seat Swell,	2 Seat Swell.
Lbs. each..	65.	90.	75	125.	75.	150.

Bodies.

	Piano,	Platform,	Jump Seat,	Improved Ironed.
Lbs. each.....	50.	115.	100.	135.
	Phaeton,	Extension Top,	Surrey.	
Lbs. each	85.	200.	85.	

ALL PRICES SUBJECT TO DISCOUNT.

ESTIMATED SHIPPING WEIGHTS.

WOOD MATERIAL.

Seats.

	Square Corner.	Round Corner.	Perkins,	Graham's
Lbs. each.....	11	11	10	12.

Gears.

	One Seat, No Body,	One Seat, With Body,	Two Seat, No Body,	Two Seat, With Body,	Phaeton, With Body,	Hanson & Macks.
Lbs. each..	110.	190	125	225.	270	175

Platform Gearings.

	1,000 lbs.,	1,500 lbs.,	2,000 lbs.,	2,500 lbs.,	3,000 lbs.
Lbs. each....	45.	50	55	60	70

Sulky Gearings

Lbs. per set....	Light.....	18.	Medium.....	23
------------------	------------	-----	-------------	----

Wheels.

Tread.....	$\frac{3}{4}$.	$\frac{7}{8}$.	1,	$1\frac{1}{8}$.	$1\frac{1}{4}$.	$1\frac{3}{8}$.	$1\frac{1}{2}$ inch.
Lbs. per set....	44	58.	65	85	93	115	135

Handles.

	Axe,	Railroad Pick,	Coal Pick,	Drifting Pick,	Sledge,	Hammer
Lbs. per dozen,	20.	30.	20.	20	15.	7

Rough Buggy Gearing

	Axle Beds,	Spring Bars,	Reaches,	Head Blocks,	Side Bars.
Lbs. per dozen,	65.	38	55.	28.	65

Pole Circles.

	$1\frac{1}{4}$.	$1\frac{3}{8}$.	$1\frac{1}{2}$ inch.
Lbs. per dozen	28.	35.	44

Shaft Bars.

	$1\frac{1}{2}$ x2,	2 x $2\frac{1}{2}$ inch.
Lbs. per dozen	62.	85.

Ox Bows.

	2,	$2\frac{1}{4}$ inch.
Lbs. per dozen .	42.	48.

Ox Yokes.

	No.....	1,	2,	3,	4.
Lbs. each..		45	55.	65.	75.

Harrow Woods.

Lbs. per set.....	Two Section, 85		Three Section, 125.
-------------------	-----------------	-------	---------------------

Lumber.

Oak.....	4,250 lbs. per 1,000 feet.
Ash.....	4,000 " " " "
Hickory.....	4,250 " " " "
Whitewood.....	3,500 " " " "
Deewood.....	3,500 " " " "

ALL PRICES SUBJECT TO DISCOUNT.



We illustrate No. 7 assortment New Little Giant Screw Plate, containing the new ADJUSTABLE TAP WRENCH. We are sole agents in this city for these celebrated Screw Plates and are pleased to refer to our large and increasing sales, proving their unrivaled merit. See pages 121 and 122 for prices.



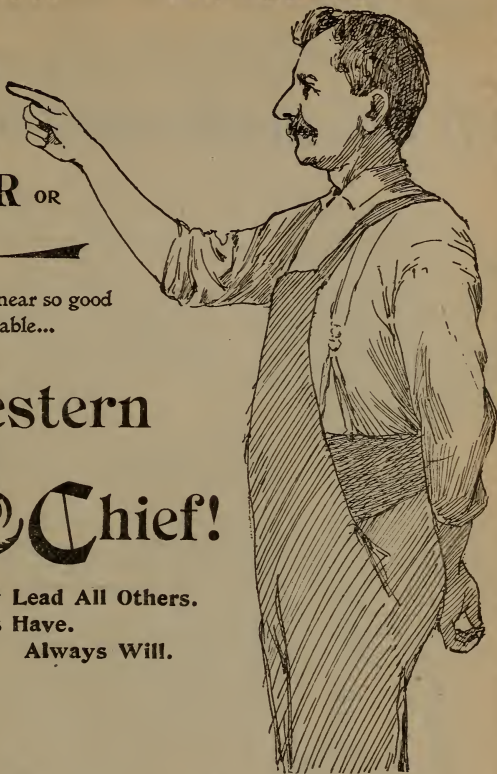
We represent above the new LITTLE GIANT ADJUSTABLE TAP WRENCH, which is now furnished, without extra charge, with every New Little Giant Screw Plate.

No Other
FORGE,
BLOWER OR
DRILL

Is anywhere near so good
as the old reliable...

Western
Chief!

They Easily Lead All Others.
Always Have.
Always Will.



For sale by S. D. KIMBARK CO., and a full line is illustrated
and described on pages 155 to 163 and 180, 181.

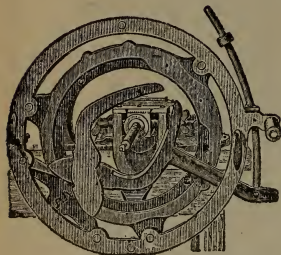
TURN BACK AND SEE THEM.

ALL SIZES, SHAPES AND STYLES.

Buy Only the Very Best.

The Latest and Greatest.

ABBOTT'S SPECIAL LITTLE GIANT HUB BORERS.



No. 2 Special Little Giant Hub Borer.

Patented May 5, 1891.

This is the only machine in the world that bores taper holes in the exact center of the hub at the spokes, true with the rim, and the right size and shape to fit the box, for light and medium work.

Price, \$35.00 each.

Abbott's Box Puller.

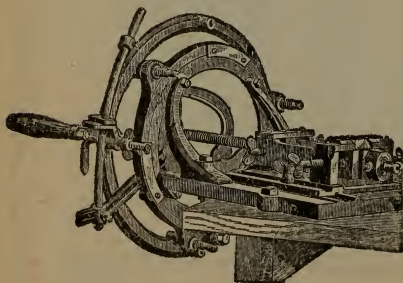
This little tool is a "press" for pressing boxes into or out of the hubs, for light and medium work.

No. $\frac{1}{4}$ has $\frac{1}{4}$ -inch spindle which in operation has to go through the box, and will not do for boxes having a hole smaller than $\frac{3}{4}$ inch at the point.

No. $\frac{3}{8}$ has $\frac{3}{8}$ -inch spindle, and can be used for small boxes having a hole $\frac{1}{2}$ inch or larger.

These machines are of iron and steel, and while weighing only from **eight to ten pounds**, are capable of exerting a pressure of **FORTY TO FIFTY TONS** with one man.

Price, \$6.00 each.



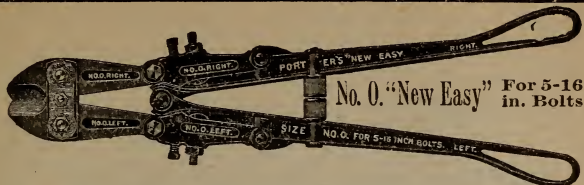
No. 3 Special Little Giant Hub Borer...

Pat. May 5, 1891.

This is the right size and shape to fit any box for any hub, from a sulky to a wheel having a hub $9\frac{1}{2} \times 13$ inches.

Price, \$45.00

For Sale by S. D. KIMBARK.



THE "EASY" and "NEW EASY"

Best in the
World...

Bolt Clippers

OVER 45,000 SOLD.



These tools are the only ones of the kind having sufficient adjustment to last through years of use, and wear out a pair of jaws.

They cost a trifle more than others having little or no adjustment, which will need new jaws in a short time, but they are worth many times more than the slight difference in price.

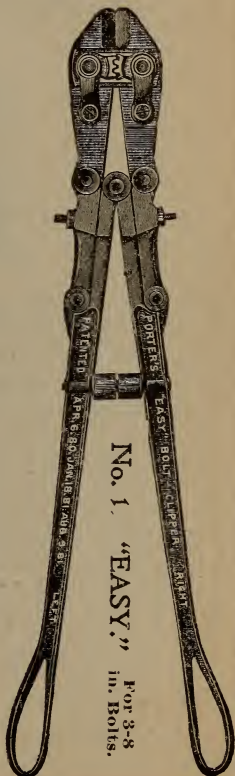
Adjusting the jaws by moving the handles by screws and other devices, was tried and given up more than 25 years ago.

The amount of adjustment got in this way is too small to be of any practical value.

These tools have other devices of almost equal importance, but the matter can be summed up in a few words:

***They are the only practical
open shear Bolt Clipper.....***

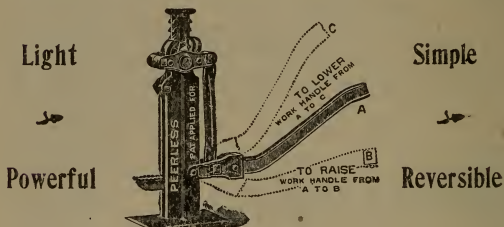
For sale by S. D. Kimbark.



★

THE PEERLESS AUTOMOBILE JACK.

The Best for Shop, Stable or Road.



The Peerless owes its origin to the great need of a really good all-around Automobile jack, yet one which can be used for all purposes. Can be used under any Automobile. Is neat and light, which, combined with its great strength and lifting range, makes it indeed "The Peerless." By working the handle below the center, the weight is raised; working handle above center, lowers it, or by reversing ends and working A to B. Nothing simpler. Nothing handier. Nothing easier. Made of refined malleable iron. No. 16., weight $6\frac{1}{2}$ lbs. Height 11 inches. Rise $6\frac{1}{2}$ inches.

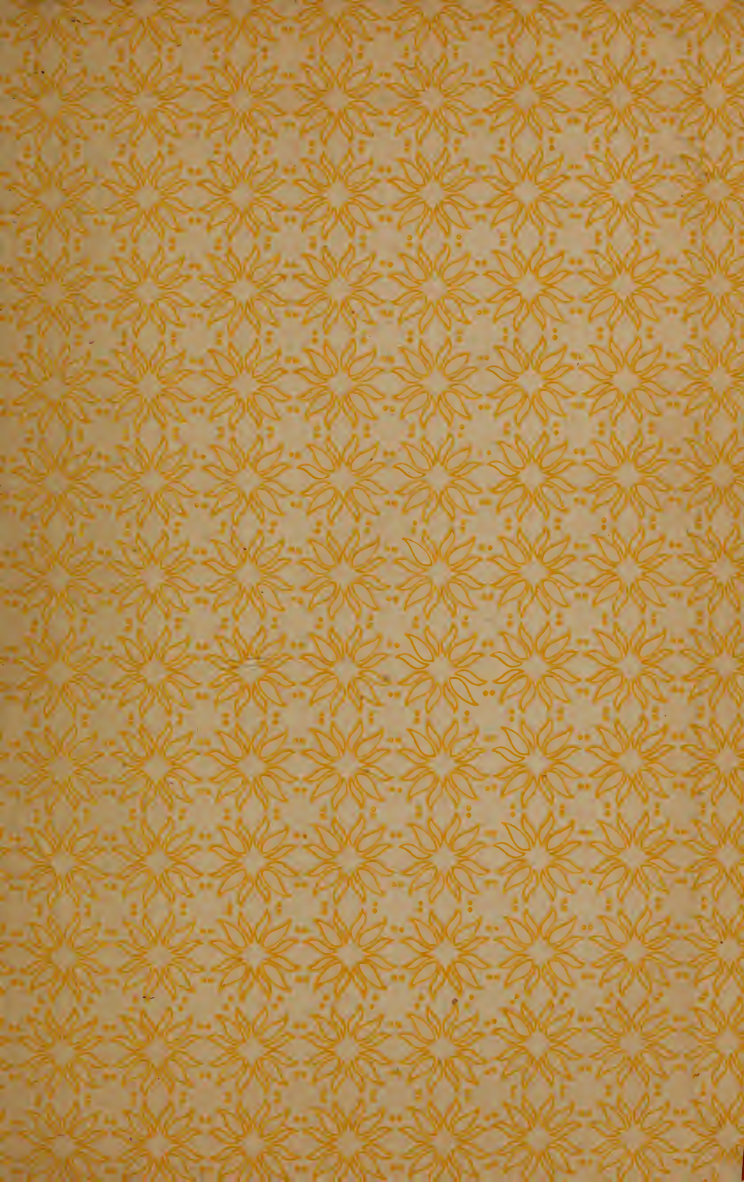
No. 15.	Lifts one ton.....	\$2 00	Each
" 16.	" two tons.....	3 00	"
" 17.	" five tons.....	5 00	"

TRY ONE—If not satisfactory return at our expense.



SEP 10 1903





LIBRARY OF CONGRESS



0 017 411 739 1